

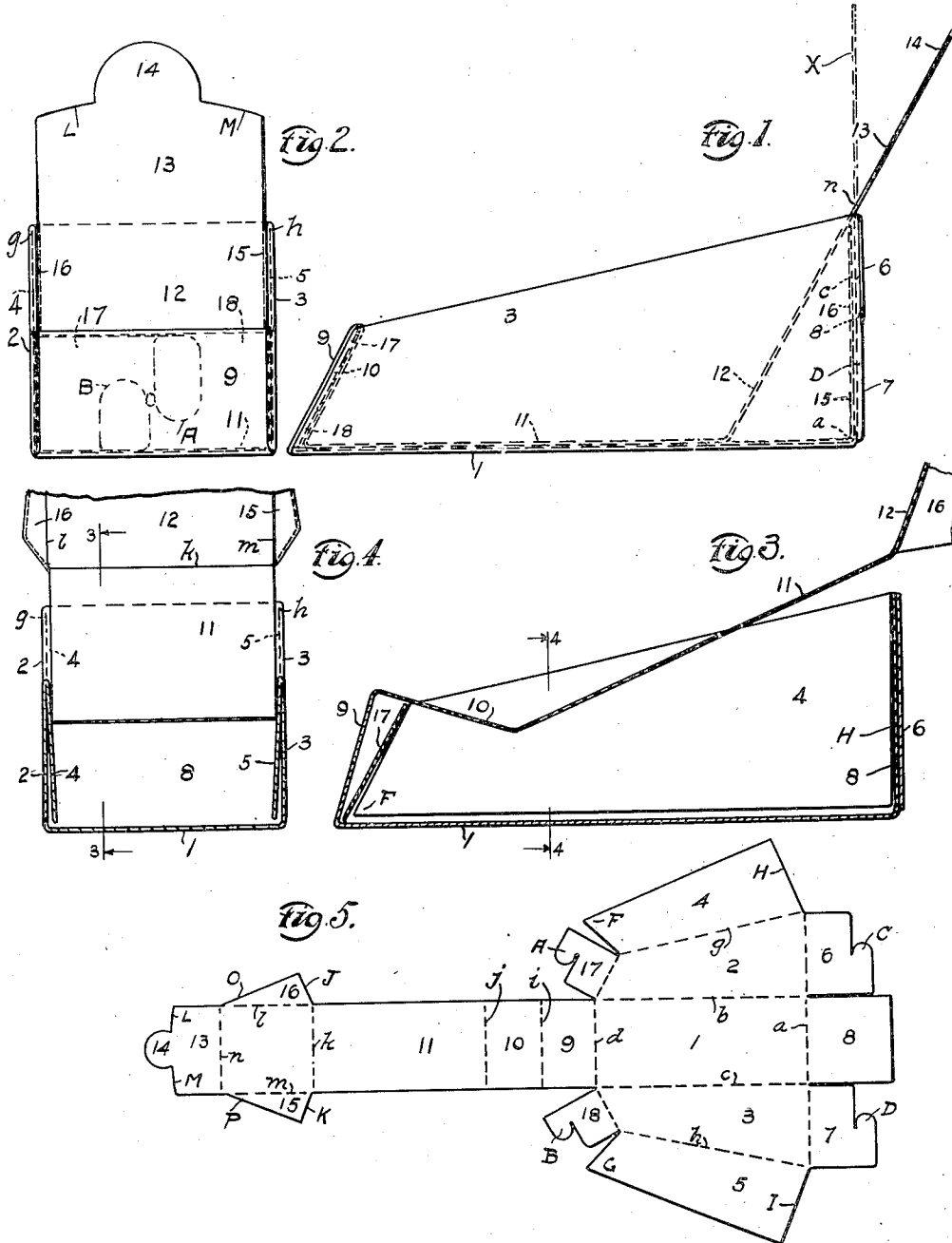
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KNOCK-DOWN DISPLAY RECEPTACLE

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KNOCK-DOWN DISPLAY RECEPTACLE

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The present invention relates to an improvement in goods display receptacles made of paper board or box board, and has for its principal object the making of such a receptacle from a single blank, easily erectable into the desired form, the blank, as made being printable on one surface only so that when set up in display condition all visible surfaces present only printed and decorated surfaces.

Another feature is in the arrangement of the front and rear portions of the receptacle, wherein these advertising display surfaces, which are connected together are inclined rearwardly at an easy, visual angle, from the front of the receptacle.

Another feature is in the manner of erecting the receptacle so that, in effect all of the surrounding walls and bottom are in multiple, thus to stiffen the receptacle, when erected.

A further feature is in the arrangement of the body forming panels, wherein they act, in addition to stiffening the receptacle, to form a complete lining for the receptacle when erected.

The foregoing, and other features of advantage will be apprehended, as the herein description proceeds, and it is obvious that modifications may be made in the structure without departing from the spirit hereof or the scope of the claims.

In the drawing,

Fig. 1 is a side elevation of the receptacle;

Fig. 2 is a view in front elevation;

Fig. 3 is a sectional view taken on line 3—3,

Fig. 4, looking in the direction of the arrows;

Fig. 4 is a longitudinal sectional view taken on the line 4—4, Fig. 3, looking in the direction of the arrows; and

Fig. 5 is a reduced view of the single piece blank from which the carton of Fig. 1 is erectable.

As viewed in Fig. 5, the blank of the present receptacle comprises an outer bottom forming panel 1, from which all of the other component body forming panels and flaps depend. Panel 1 is provided with two opposed, angularly proportioned, elongate, outer side forming panels 2 and 3, these being defined from bottom panel 1 by parallel score lines *b* and *c*, respectively.

The outer, side forming panels 2 and 3 are provided with depending, inside side forming liner panels 4 and 5, these being angularly proportioned, and being angularly scored from outer side forming panels by score lines *g* and *h* respectively.

Outer side forming panels 2 and 3 are each provided, at their smaller ends, with end flaps 17

and 18, respectively, and these end flaps are defined from said side flaps by score lines *e* and *f*, respectively, said score lines being located angularly, relative to the said angular side panels 2 and 3, so that the said end panels while substantially rectangular, are hingedly secured to said side panels at an angle thereto. Each end forming flap 17 and 18 are provided with interlocks A and B, respectively, the purpose of which will be later described.

At the opposite end of the blank of Fig. 5, is located an end closing flap 8, defined from the outer bottom forming panel 1 by a score line *a*. This latter score line is a common score defining, also, two interlockable end closing flaps 6 and 7, which are hingedly attached to outer, triangular side forming panels 2 and 3, respectively. Flaps 6 and 7 are provided with interlocking tabs C and D, respectively, the function thereof to be described in detail later on.

Outer bottom forming panel 1 has an outer front end forming panel 9 defined therefrom by a score line *d*, and this panel 9 has scored by score line *i*, therefrom, an aligned, inside front end forming panel 10, which in turn has scored therefrom by score line *j*, an aligned inside bottom forming panel 11.

Bottom panel 10 has scored therefrom by score line *k* an aligned display panel 12, the latter having an additional, aligned, conventionalized display cut-out panel 13 defined therefrom by score line *n*. Panel 13 has its upper, outer end cut to form a semi-circular extension 14, with sloping top edges L and M. This cut-out end may be varied as to its contour.

Display panel 12 on its opposite sides has scored therefrom by score lines *l* and *m* two angular friction flaps 15 and 16, said flaps having base edges J and K which are relatively angled to their associate score lines and having their apices O and P ending at the score line *n* of panel 12.

As thus described, it will be noted that the flaps and panels 8, 1, 9, 10, 11, 12 and 13 all arranged in alinement, the purpose of this being to permit of infolding this series of panels between the side wall panels to form double ends and bottom, and to frictionally hold the inner wall forming members through the medium of the frictionally held display panel 13—14, now to be described.

In erection of the display receptacle from the flat, as viewed in Fig. 5, the inside wall forming panels 4 and 5 are first overfolded upon outside wall forming panels 2 and 3, upon the score *g* and *h*. Then the combined wall members 2—4 and 3—5 are bent upright upon the score lines *b* and

c, as in Fig. 4. This action naturally brings up to interlockable positions, the lockable end forming flaps 6—7 and 17 and 18. Then end forming panel 8 is brought upright upon its score line *a* and lock flaps 6 and 7 lockably engaged behind panel 8, by the interlockable tabs C—D, in the known manner, the flaps 6—7 thus forming, as in Fig. 1, an exterior support for holding panel 8 upright.

After this is accomplished the forward or front end forming flaps 17—18 are likewise interlocked across the front end of the receptacle by their interlocking tabs A and B. As the flaps 17—18 are angularly scored on their bending lines *e—f*, relative to their panels 2—3 they are, upon being interlocked at an angle, as at 17, Figs. 1 and 3, the diagonal front edges F and G, both figures, conforming to the angled score lines *e—f*, best shown in Fig. 3.

After erecting the body of the receptacle as per the foregoing description, front end panel is bent upwardly and over, on its score line *d*, as in Fig. 3, until it is in contact with the sloping interlocked end flaps 17—18, and then panel 10 is bent downwardly upon its score line *i*, as partially indicated in Fig. 3, thus drawing some of the aligned extending panels into the interior of the receptacle.

Then the panel 10 is pushed frontwardly towards the inclined inner faces of the lock flaps 17—18, until it reaches the position shown dotted at 10, Fig. 1, thus enclosing the front end lock flaps on both sides with panels 9 and 10, panel 9 forming the exterior sloping front end.

Thereafter, the inside bottom forming panel 11, is seated firmly upon the inside face of the outer bottom forming panel 1, shown dotted at 11, Figs. 1 and 2, this action automatically setting the display panel at an angle, within the receptacle, the friction wings 15—16 bending on their score lines *l* and *m*, engaging the inside faces of the inner side forming panels 4 and 5, as shown dotted in Fig. 1, and in full lines in Fig. 2.

The display panel 12—13—14 may be then pushed all the way back on its score line *k* until it rests upon the upper edge of the rear end panel and flaps 6, 7 and 8, Fig. 1. Thereafter the section 13 of the display panel may be brought vertically upright, if desired, and as shown by the dot and dash construction at X, Fig. 1, by bending said section slightly, on the score line *n*.

As thus described, it will be noted that the herein receptacle is so constructed as to present a novel appearance when erected, is attractive of itself, and lends itself to an attractive display of contained goods, with a presentation of an easily visible display of goods and advertising due to the general slope of the receptacle from the relatively higher, rear display panel end, to the lower sloped front end 8.

It further presents to the vision, as an eye attraction, the appearance of a two-print receptacle, as all visible surface thereof from the front, sides and rear, except for the rear face of display panel 13—14, may present attractive coloring and advertising matter.

This will easily be understood, by referring to the blank of Fig. 5, wherein the viewed surface may be the unprinted side, while the underside of said blank may be printed all over, at one run through the printing press, but when the blank is over folded and erected as described from the position of Fig. 5, the under-printed surface becomes the exposed, visible surface of all parts of

the erected receptacle, excepting the extended end 13—14 of the display panel.

Having thus described the invention what is claimed is:

1. A single piece display receptacle, of box board, comprising a rectangular body having a bottom, sides and high and low ends, and having an open top, the sides of the receptacle being sloping from the high end to the low end, and a display panel supported at the high end, the low end being connected to an inside bottom over said first bottom and said inside bottom being also connected with said display panel.

2. A single piece display receptacle, of box board, comprising a rectangular body having a bottom, sides and high rear and low front ends, and having an open top, the sides of the receptacle being sloping from the high rear end to the low front end, a display panel angularly supported at the high rear end, the low front end being angularly disposed, means forming an inside bottom over said first bottom and connecting said display panel to said front low end and side engaging, friction flaps on said display panel.

3. A single piece display receptacle, of box board, comprising a rectangular body having a bottom, plural opposed sides and plural high rear and plural low front ends, and having an open top, the sides of the receptacle being sloping from the high rear end to the low front end, a display panel angularly supported at the high rear end, the low front end being angularly and exteriorly disposed and connected to means forming an inside front panel and an inside bottom over said first bottom and connecting said display panel to said inside front panel and side engaging friction flaps on opposite sides of said display panel.

4. A single piece receptacle, of box board, comprising a rectangular body having a bottom and four sides, one of said sides being low and other of said sides being high, two of said sides being adjacent and joining said high and low sides and having sloping edges, three of said sides being vertically disposed, one of said sides being angularly disposed and a display panel angularly disposed within said receptacle and engaged against the top edge of said high side.

5. A single piece receptacle, of box board, comprising a rectangular body having a bottom and four sides, one of said sides being low and another of said sides being high, two of said sides being adjacent and joining said high and low sides and having sloping edges, three of said sides being vertically disposed, said low side being angularly disposed and connected with an inside bottom, and a display panel angularly disposed and hingedly connected to said inside bottom, said panel being supported in display position against the edge of said high side.

6. A single piece receptacle, of box board, comprising a rectangular body having a bottom and four sides, one of said sides being low and another of said sides being high, two of said sides being dual walled and being adjacent and joining said high and low sides and having sloping edges, three of said sides being vertically disposed, said low side being angularly disposed, an inside bottom connected to said low side, and a display panel hingedly connected to said inside bottom and being angularly disposed against the edge of said high side in display position.

7. A blank for forming a display receptacle from paper board, comprising a main bottom panel, a high-end forming panel scored therefrom, in alinement with said bottom panel, in-

side and outside low-end forming panels in alignment with said bottom and high-end forming panels and defined from said bottom panel and each other by score lines, an inside bottom forming panel and a display panel each in alignment with said above noted panels and each other, and defined from each other and said low-end forming panels and each other by score lines, said display panel having a traversing score line at about its mid portion, opposed friction flaps on opposite sides of said display panel and defined therefrom by score lines, triangular outside side forming panels on opposite sides of said outside bottom forming panel and defined therefrom by score lines, opposed triangular inside side forming panels angularly disposed on the outside edges of said outside side forming panels and defined therefrom by score lines, two interlocking high-end forming panels adjacent said first high-end forming panel disposed, one each, on one end of said outside side forming panels and defined therefrom by a score line common to all said high-end forming panels and two low-end interlocking panels disposed on the other end of said outside side forming panels, adjacent said first outside low-end forming panel, said low-end interlocking panels being defined from said outside side forming panels at an angle thereto by angularly disposed score lines, said last interlocking panels being disposed also at an angle to said outside low-end forming panel.

8. A receptacle constructed of one sheet of box board comprising an outer rectangular bottom, outer front and rear end folds, one of said folds being high and the other low, outer side folds having lining members, said side folds having their tops inclined between the first folds, interlocking members connecting said side folds at the ends of the receptacle, said receptacle being open at the top, and connected folds substantially lining said bottom and the outer end folds, one of the last mentioned folds being continuous with one of said connected folds.

9. A display receptacle formed with an open top and constructed of one sheet of box board having a finished surface and an inner surface, said receptacle including an outer rectangular bottom fold, outer side folds and outer opposed high and low end folds, said side folds having their tops inclined between said high and low folds, each of said folds having its finished surface facing outwardly; and an inner bottom fold, inner side folds, and inner opposed high and low end folds, each of said inner folds having its inner surface substantially engaging the inner surface of its corresponding outer member.

10. A receptacle formed from one sheet of paper board comprising an outer rectangular bottom, side folds extending from said bottom and having interlocking means at one end of the receptacle, opposed end members also extending from said bottom; a short bottom; an inner end fold extending from one end of the short bottom and engaging one of said members, and another inner end fold extending from the other end of said short bottom and being connected with the top portion of the other outer end member, said latter inner end fold being substantially spaced from its associated member, whereby to reinforce the receptacle thereat.

11. In a container comprising one sheet of paper board including an outer rectangular bottom having outer sides, and ends, said sides having inner sides continuous therewith, and the

container being open at the top, a short inner bottom, an inner end connecting one end of said inner bottom with the top of one of the first ends, and an inclined inner end extending from the opposite end of said inner bottom and having its top resting against the top of the other first mentioned end, said inclined end being substantially spaced from its associated end to form transverse reinforcing means, so that the sides of the container may be manually grasped on the plane of said means.

12. A receptacle constructed of one sheet of box board including a rectangular bottom having outer side folds and end folds extending therefrom, said side folds having inner folds continuous therewith and the receptacle being open at the top, a short inner bottom, an inner end fold connecting one end of said inner bottom with one of the first end folds, another fold rising from the opposite end of said inner bottom and having its top portion engaging the top of the other first mentioned end fold, said second inner end fold being inclined and being substantially spaced from the associated first end whereby to form reinforcing means, so that the outer sides may be manually grasped on the plane of said inclined fold, and opposed flaps carried by said inclined fold and engaging the inner face of the sides between said plane and the associated end fold.

13. A display receptacle constructed of one sheet of box board comprising a rectangular bottom having rising from its respective rear and front ends a high fold and a low rearwardly inclined low fold, vertical sides including outer and inner folds having their tops inclined between the high and low folds, interengaging locking flaps connecting the outer side folds across the ends of the receptacle; a short inner bottom; an inner end fold connecting the front end of the inner bottom with the low fold, and another inner fold rising from the rear end of said inner bottom and covering the inner face of said high fold, said latter inner fold forming a display panel, and at least one of said inner end folds being also inclined.

14. A display receptacle constructed of one sheet of paper board comprising a rectangular bottom, a vertical high rear end including an outer member, a rearwardly inclined low front end including also an outer member, opposed vertical sides including outer panels which have connected thereto inner panels, said sides having their tops inclined between said ends, and the receptacle being open at the top, a short inner bottom, a panel integrally connecting one end of the inner bottom with the top of the front end member, and a display panel rising from the other end of the inner bottom at least to the top of said rear end member, whereby one of said panels may be engaged against its associated end member, so that the other panel may be substantially spaced from the other end member.

15. A paper board blank for forming a display receptacle comprising a rectangular horizontally disposed bottom, side walls including panels having wide rear ends and narrow rearwardly inclined front ends, said panels being connected with the bottom and said front ends having fold lines thereat, a relatively high vertically disposed rectangular rear end panel, and substantially rectangular front end panels extending from said fold lines, so that when the panels of said side walls are turned into the erect or assembled position said front end panels may be turned into

parallel overlapping relation at the front end of the receptacle.

16. A display receptacle constructed of one sheet of box board comprising a rectangular outer bottom member having side walls vertical thereto; said side walls including outer panels having forwardly and downwardly inclined tops, inner side panels having their tops connected with the first tops, said panels having their front ends inclined in substantially the same direction as said tops, the rear ends of said panels being vertical; a relatively high rear end panel, the high ends of the outer side panels having connecting means at said end panel; front end connecting means cooperating with said inclined ends; a short inner bottom member disposed on the outer bottom member, inclined panels connecting the front ends of said bottom members and being disposed in covering relation with said front connecting means; and a display panel rising from

the rear end of the inner bottom member and being rested against the top of the high rear panel, said display panel having an angle of inclination parallel with the angle of the front end panels.

17. A display receptacle formed from a sheet of paper board, comprising a horizontally disposed rectangular bottom and having an open top, vertical sides folded from the sides of said bottom and having high vertical rear end margins and low inclined front margins which extend upwardly and backward from the front of the bottom, the tops of said sides being inclined between said margins, a high vertical rear end wall including connecting members which extend from the vertical margins, and a front end wall including connecting members which extend from the low margins, said front end members being also inclined upwardly and backwardly.

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