

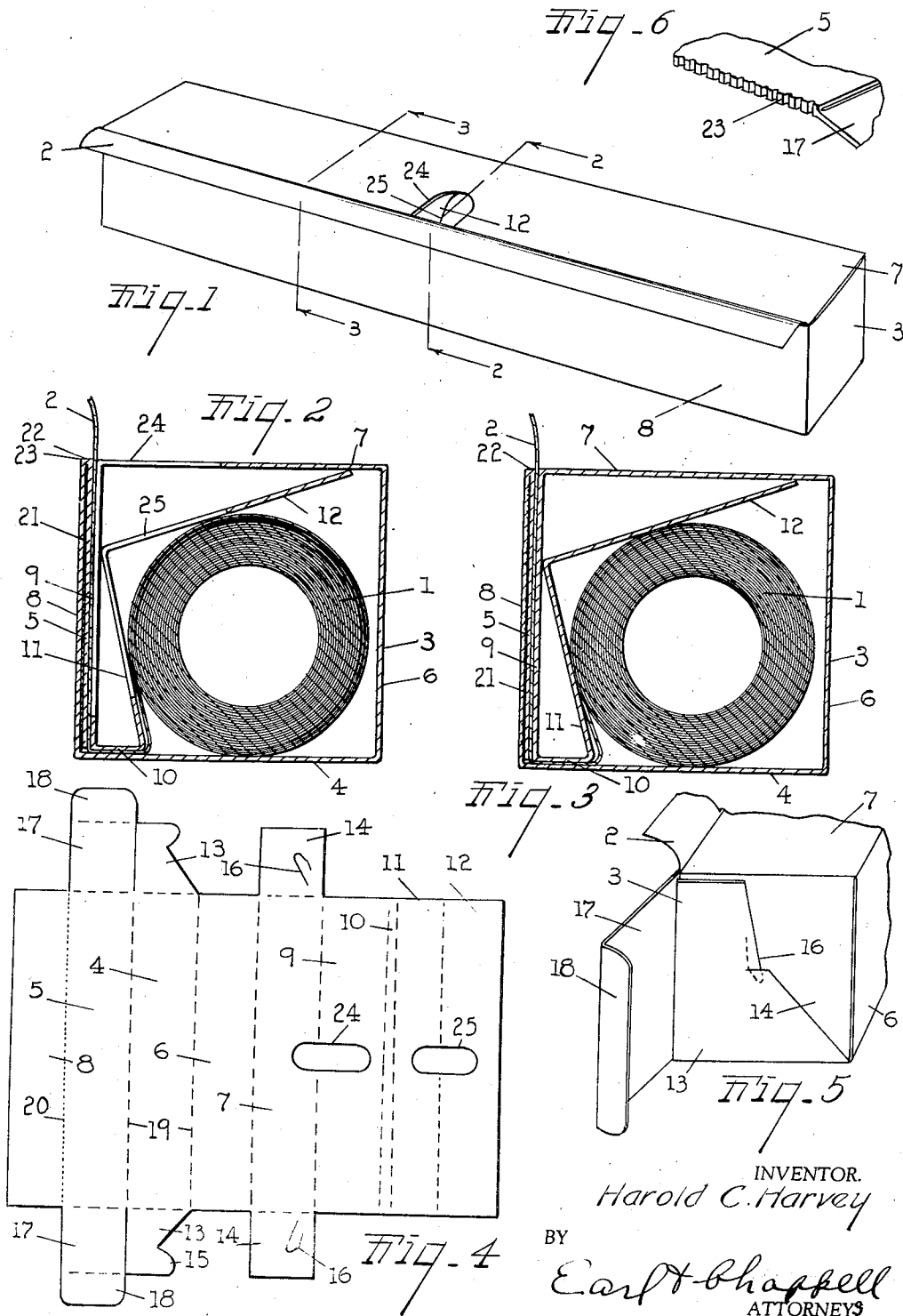
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H. C. HARVEY

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DISPENSING BOX OR CONTAINER FOR ROLL PAPER

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INVENTOR.
Harold C. Harvey

BY
Earl C. Chappell
ATTORNEYS

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DISPENSING BOX OR CONTAINER FOR
ROLL PAPERHarold C. Harvey, Sturgis, Mich., assignor to
Harvey Paper Products Company, Sturgis,
Mich.

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This invention relates to improvements in dispensing boxes or containers for roll paper.

The main objects of this invention are:

First, to provide a dispensing box or package for roll paper which may be formed of an integral blank and includes an effective cutter or shearing edge without requiring the addition of metal parts.

Second, to provide a paper dispensing box or package in which the roll of paper is effectively held or supported for the withdrawal of the web of paper therefrom, the web of paper being effectively held so that it does not retract or withdraw into the box after a severing operation.

Objects relating to details and economies of the invention will appear from the description to follow. The invention is defined and pointed out in the claims.

A preferred embodiment of the invention is illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of a dispensing package or box embodying the features of my invention, the end of a web of paper being shown projecting therefrom.

Fig. 2 is an enlarged transverse section on a line corresponding to line 2—2 of Fig. 1 with a roll of paper within the box and the end of the web projecting.

Fig. 3 is an enlarged transverse section on a line corresponding to line 3—3 of Fig. 1.

Fig. 4 is a plan view of the blank from which the box or package is formed.

Fig. 5 is a fragmentary perspective view looking from an end of the box with the outer end wall flap open, the purpose of this view being to show structural details.

Fig. 6 is an enlarged fragmentary perspective view of the front wall, the serrations or cutter edge thereof being exaggerated for convenience in illustration.

In the accompanying drawing 1 represents a roll of paper and 2 the paper web constituting the roll. My improved paper dispensing package or box designated generally by the numeral 3 is preferably formed of an integral blank shown in Fig. 4 which comprises a bottom portion 4, front wall portion 5, rear wall portion 6, and top portion 7. These are arranged in alignment as are also the reinforcing extension 8 of the front wall, the paper guide portions 9 and 10 which are extended from the front edge of the top wall 7, and the paper holder extension portions 11 and 12 which are extensions from the edge of the guide portion

The bottom 4 has end wall flaps 13 extended from the ends thereof while the top wall 7 has end wall flaps 14 extending from the ends thereof. These flaps 13 and 14 have interlocking tongues 15 and 16.

The front wall 5 has outer end wall extension 17 terminating in tucking flaps 18 which are, after the box is set up as indicated in Fig. 5, tucked between the rear edges of the end wall flaps 14 and the adjacent rear wall.

The blank is suitably scored between the various parts to facilitate folding as indicated by the broken lines 19 and has a line of perforations 20 along the line joining the front wall reinforcing extension 8 with the upper edge of the front wall 5.

Previous to setting up the box, the front wall reinforcing extension 8 is folded inwardly upon the inner side of the front wall and secured thereto preferably by a layer of adhesive indicated at 21. In the embodiment of my invention illustrated this reinforcing extension is substantially coextensive with the front wall. This provides a double ply front wall substantially stiff even when the box is formed of relatively light stock.

The folded edge 22 provides a stiff cutting or shearing edge and as a result of the perforations 20, this folded edge has serrations or teeth indicated at 23—see Fig. 6. These serrations are however enlarged or exaggerated in this figure for convenience in illustration. However, substantial teeth result from folding this front wall extension inwardly, and a relative stiff front wall and also cutting or shearing edge results.

To tension the paper and prevent its being retracted into the box after a dispensing operation, I provide a web or paper holder and this comprises the extensions 9 and 10 of the blank which are folded into the box with the extension 8 in substantially parallel relation to the front wall of the box and the extension or portion 10 in substantially parallel relation to the bottom of the box, these parts being spaced from the adjacent walls so that the web of paper may be threaded between the same and is properly tensioned thereby.

To further hold and tension the roll of paper, the guide or tension portion 10 is provided with an angled paper holder extension 11 and 12, the portion 11 engaging the front of the roll and the portion 12 the top of the roll. The roll of paper is arranged within the box so that as the web is drawn therefrom, it passes downwardly between the roll of paper and the holder portion 11.

The top and the guide portion are provided

with a finger opening 24 while the angled paper holder is provided with an aligned finger opening 25. The roll of paper may be engaged through these openings to tension the same if desired when the paper is drawn out and also the opening 24 extending into the guide portion 9 provides a finger opening facilitating the engaging of the end of the web after it has been severed on the cutter or severing edge 23.

By this simple means, I provide an effective severing or cutting edge and the front wall terminating in such cutting edge is stiffened so that it is not likely to bend or be distorted during the severing operation. The strip or web of paper is effectively tensioned and held so that it is not likely to be withdrawn or retracted into the box owing to the tendency of the paper to recoil after it has been drawn off or as a result of the shifting about of the roll within the box particularly when it has been substantially reduced in diameter. Further, the box is quite rigid even when of substantial length and formed of relatively light material.

The rolls of paper illustrated are slightly diminished in diameter, it being intended that in practice the rolls when placed within the container shall contact not only the holder members 11 and 12 but also the rear wall, thus preventing movement of the roll of paper within the package during shipping and handling.

I have illustrated and described my improvements in very practical embodiments thereof. I have not attempted to illustrate certain modifications or adaptations which I contemplate as it is believed that this disclosure will enable those skilled in the art to embody or adapt my improvements as may be desired.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. A paper dispensing package or box formed of an integral blank scored to facilitate folding and comprising bottom, top, front, rear and end walls, the front wall having a reinforcing extension integrally connected thereto at its upper edge by a perforated fold line and folded on said line inwardly upon and adhesively secured to the inner side of the front wall, such reinforcing extension being substantially coextensive with the front wall, the infolded edge constituting a serrated cutter edge at the perforated fold line, the top wall having an intumed paper guide extension at its front edge, said guide extension being disposed within the box and comprising front and bottom portions disposed in parallel relation to the front wall and bottom wall respectively and spaced therefrom to receive the web of paper between them, the bottom portion being relatively narrow and in close proximity to the bottom wall to frictionally engage the web against the latter during withdrawal from the box, the said paper guide extension being provided with an angled paper holder extension extending from the rear edge of the bottom portion of said guide extension and adapted to engage the front side and top of a roll of paper, said top wall and said angled paper holder being provided with aligned finger openings through which a roll of paper may be engaged.

2. A paper dispensing package or box formed of an integral blank scored to facilitate folding and comprising bottom, top, front, rear, and end walls, the front wall having a reinforcing extension integrally connected thereto at its upper edge by a perforated fold line and folded on said

line inwardly upon and secured to the inner side of the front wall, the infolded edge constituting a serrated cutter edge at the perforated fold line, the top wall having an intumed paper guide extension at its front edge, said guide extension being disposed within the box and comprising front and bottom portions disposed in parallel relation to the front wall and bottom wall respectively and spaced therefrom to receive the web of paper between them, the bottom portion being relatively narrow and in close proximity to the bottom wall to frictionally engage the web against the latter during withdrawal from the box, the said paper guide extension being provided with an angled paper holder extension extending from the rear edge of the bottom portion of said guide extension and adapted to engage the front side and top of a roll of paper, said top wall and said angled paper holder being provided with aligned finger openings through which a roll of paper may be engaged.

3. A paper dispensing package or box formed of an integral blank scored to facilitate folding and comprising bottom, top, front, rear, and end walls, the front wall having a reinforcing extension integrally connected thereto at its upper edge by a perforated fold line and folded on said line inwardly upon and adhesively secured to the inner side of the front wall to stiffen the same, such reinforcing extension being substantially coextensive with the front wall, the infolded edge constituting a serrated cutter edge at the perforated fold line.

4. A paper dispensing package or box formed of an integral blank scored to facilitate folding and comprising bottom, top, front, rear, and end walls, the front wall having a reinforcing extension integrally connected thereto at its upper edge by a perforated fold line and folded on said line inwardly upon and secured to the inner side of the front wall to stiffen the same, the infolded edge constituting a serrated cutter edge at the perforated fold line.

5. A paper dispensing package or box formed of an integral blank scored to facilitate folding and comprising bottom, top, front, rear, and end walls, the top wall having an intumed paper guide extension at its front edge, said guide extension being disposed within the box and comprising front and bottom portions disposed in parallel relation to the front wall and bottom wall respectively and spaced therefrom to receive the web of paper between them, the bottom portion being relatively narrow, the said paper guide extension being provided with an angled paper holder extension extending from the rear edge of the bottom portion of said guide extension and adapted to engage the front side and top of a roll of paper, said top wall and said angled paper holder being provided with aligned finger openings through which a roll of paper may be engaged.

6. A paper dispensing package or box comprising bottom, top, front, rear, and end walls, the front wall having a reinforcing extension integrally connected thereto at its upper edge and folded inwardly upon and adhesively secured to the inner side of the front wall to stiffen the same, such reinforcing extension being substantially coextensive with the front wall, the infolded edge constituting a serrated cutter edge, the top wall having an intumed paper guide extension at its front edge, said guide extension being disposed within the box in spaced relation to the infolded edge to receive the web of paper between them,

the said guide extension extending downwardly to a point closely adjacent the bottom wall and being provided with an angled rearwardly facing paper holder extension in close proximity to the bottom wall to frictionally engage the web against the latter during withdrawal from the box, said last named extension having portions engaging the front side and top of a roll of paper to frictionally restrain the latter.

7. A paper dispensing package or box comprising bottom, top, front, rear, and end walls, the front wall having a reinforcing extension integrally connected thereto at its upper edge and folded inwardly upon and secured to the inner side of the front wall to stiffen the same, the infolded edge constituting a cutter edge, the top wall having an inturned paper guide extension at its front edge, said guide extension being disposed within the box in spaced relation to the infolded edge to receive the web of paper between them, the said guide extension extending downwardly to a point closely adjacent the bottom wall and being provided with an angled rearwardly facing paper holder extension in close proximity to the bottom wall to frictionally engage the web against the latter during withdrawal from the box, said last named extension having a portion engaging the front side and top of a roll of paper to frictionally restrain the latter.

8. A paper dispensing package or box comprising bottom, front, rear, and end walls, the front wall having a reinforcing extension integrally connected thereto at its upper edge by a perforated fold line and folded on said line inwardly upon and secured to the inner side of the front wall to stiffen the same, such reinforcing extension being substantially coextensive with the front wall, the infolded edge constituting a serrated cutter edge at the perforated line.

9. A paper dispensing package or box comprising a front wall having a reinforcing extension integrally connected thereto at its upper edge by a perforated fold line and folded on said line

inwardly upon and secured to the inner side of the front wall to stiffen the same, the infolded edge constituting a serrated cutter edge at the perforated line.

10. A paper dispensing package or box comprising bottom, top, front, rear, and end walls, the top wall having an inturned paper guide extension at its front edge, said guide extension being disposed within the box in spaced relation to the adjacent wall to receive the web of paper between them, the said guide extension being provided with an angled rearwardly facing paper holder extension in close proximity to the bottom wall to frictionally engage the web against the latter during withdrawal from the box, said last named extension having portions engaging the front side and top of a roll of paper to frictionally restrain the latter.

11. A paper dispensing package or box for a roll of paper comprising top and front walls, the top wall having an inturned guide extension at its front edge disposed within the box in spaced relation to the front wall to receive a web of paper from the roll therebetween, the said guide extension being provided with an angled rearwardly facing extension in close proximity to the bottom wall to frictionally engage the web against the latter during withdrawal from the box, said last named extension terminating in a portion frictionally engaging the roll.

12. A paper dispensing package or box for a roll of paper, comprising top, bottom and front walls, the top wall having an inturned guide extension at its front edge disposed within the box in spaced relation to the front wall to receive a web of paper from the roll therebetween, the said guide extension extending downwardly to a point closely adjacent the bottom wall and being provided with a rearwardly disposed extension in close proximity to the bottom wall to frictionally engage the web against the latter during withdrawal from the box.

HAROLD C. HARVEY.