

C. F. JENKINS.
 COLLAPSIBLE KNOCKDOWN BOX.
 APPLICATION FILED MAY 28, 1909.

947,179.

Patented Jan. 18, 1910.

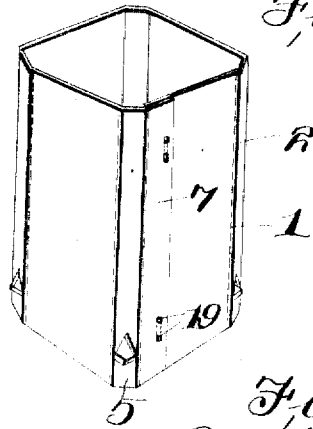


Fig. 1.

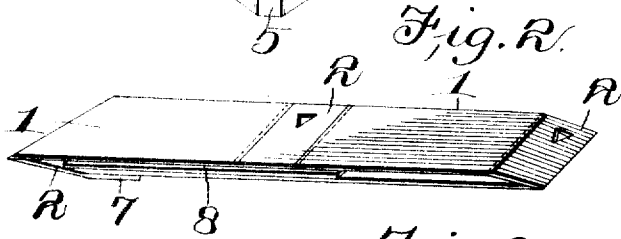


Fig. 2.

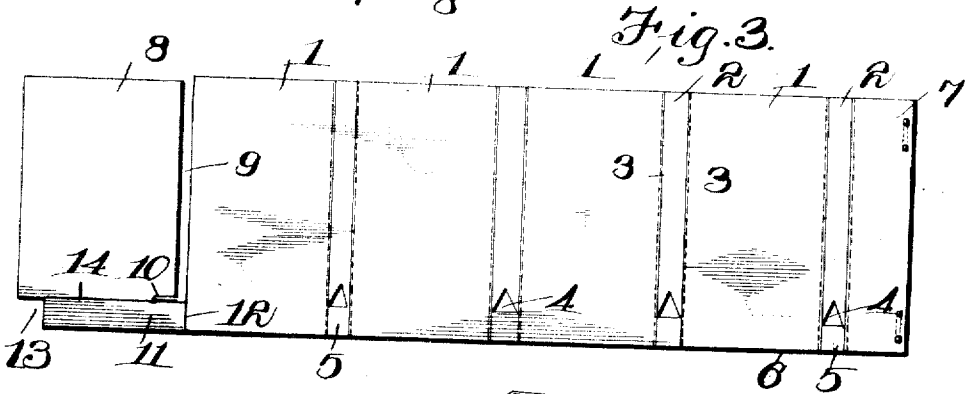


Fig. 3.

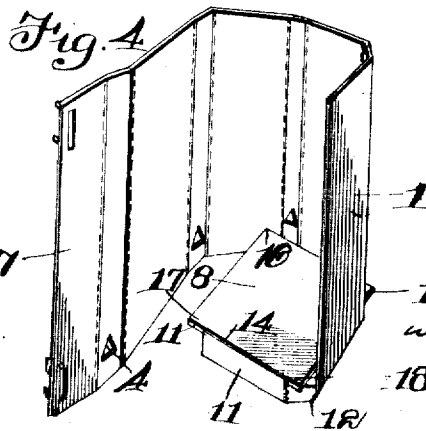


Fig. 4.

Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES FRANCIS JENKINS, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR TO
SINGLE SERVICE PACKAGE CORPORATION OF AMERICA, OF NEW YORK, N. Y., A
CORPORATION OF NEW YORK.

COLLAPSIBLE KNOCKDOWN BOX.

947,179.

Specification of Letters Patent.

Patented Jan. 18, 1910.

Application filed May 28, 1909. Serial No. 499,005.

To all whom it may concern:

Be it known that I, CHARLES FRANCIS JENKINS, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Collapsible Knockdown Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to collapsible knockdown boxes, and has for its object to produce such a box, the blank of which can be readily stamped out of paper and which blank will involve a minimum of waste after it is cut into shape.

To these ends the invention consists in the novel details of construction and combination of parts more fully hereinafter disclosed and particularly pointed out in the claims.

Referring to the accompanying drawings forming a part of this specification, in which like numerals refer to like parts in all the views:—Figure 1, is a perspective elevational view of the completed box; Fig. 2, is a perspective view showing the box in its knockdown or collapsed condition; Fig. 3, is a plan view of the blank from which the boxes are made; and, Fig. 4, is a perspective view showing the blank partially folded to form the completed box.

The blank from which the box is made is composed of a series of panels 1, having integral therewith a series of narrower panels 2, separated from said panels 1 by weakened or scored lines 3, and provided near one end with triangular notches or holes 4, leaving a space 5 between the bottom of said notches and the edge 6 of the blank. At one end of the blank a flap 7 is attached to one of the panels 2, and at the other end of the blank a bottom 8 is separated from one of the wider panels by a comparatively narrow open slot 9, having an L-shaped extension 10, at one end. The material under the L portion of this slot is bent away from the bottom, as shown in Fig. 4, to leave the projecting corner 18 there illustrated. The said bottom 8 is integrally attached to the flanged strip 11, which, in turn, is integrally attached to the adjacent panel 1, and the weakened line 12 is provided where it joins

with said panel. The outer end of said strip 11 is cut away to form the rectangular space 13 and to provide the projecting corner 17 on the bottom 8, as illustrated. The strip 11 is of the same width as the portions 5 extending beneath the triangular perforations 4.

In assembling the box, the bottom 8 is first folded along the line 14 at right angles to the strip 11, as illustrated in Fig. 4. The strip 11 and bottom 8 are then folded at right angles to the adjacent panel 1, along the line 12, and then the corners 15, 16, and 17, of the bottom are successively inserted in the triangular perforations 4, as the panels 1 and 2 are wrapped around the said bottom. The last perforation 4 next to the flap 7 will fold over the corner 18 of the bottom, and the said flap 7 will, thereupon, overlap the panel 1 next to the bottom, as shown in Fig. 3, and said flap 7 is, thereupon, secured to said last mentioned panel by staples 19, or other suitable fastenings.

After the flap 7 has been secured to the body portion of the box, by pressing upwardly on the bottom 8, the corners thereof will readily disengage from the perforations 4, owing to their triangular shape, and although the body portion of the box is in a tubular form, yet the same may be readily collapsed, as shown in Fig. 2, with the bottom occupying the position shown. In this position the box occupies a small space and can be readily packed economically for shipping. When it is desired to open out the box, it is only necessary to open out the tubular body portion and to then force the bottom down into position, when its corners will readily take into the triangular perforations 4 and seat themselves, as shown in Fig. 1. This action is greatly facilitated by the upwardly pointed, triangular, shape of said perforations 4, and the bottom, of course, in such action, hinges on the line 14, best shown in Fig. 3. The spaces 5 and strip 11, it will be observed, determine the distance that the bottom 8 rests above the bottom of the box.

What I claim is:

1. A blank for a knockdown box, consisting of a series of comparatively wide and narrow panels; said narrow panels being separated from the wider panels by weakened lines and provided with triangular perforations near one end of the same; leaving

a space between the bottom of said perforations and the edge of the blank; a flap integrally attached to one of said narrow panels, a bottom separated by an L-shaped slot from one of said wider panels to form a corner 18 on said bottom; a narrow strip integrally attached to said bottom, of a less length than the width of said bottom to form a corner 17 on the latter, said strip being integrally attached to one of said wider panels; substantially as described.

2. A knockdown and collapsible box formed from a paper blank having a plurality of wide and narrow panels integral with each other, the narrow panels provided with triangular-shaped perforations near one end, and one of said panels provided with a flap; a narrow strip integral with one of said

wider panels and of a less length than the width of said bottom to form a corner 17, a bottom integral with said strip, and separated from one of said wider panels by an L-shaped slot to form a corner 18 on said bottom and suitable fastenings between said flap, and one of said wider panels, whereby the bottom of the box may be readily unseated and the box collapsed for shipping, or may be readily seated, when the box is intended for use; substantially as described.

In testimony whereof, I affix my signature, in presence of two witnesses.

CHARLES FRANCIS JENKINS.

Witnesses:

JAMES L. CRAWFORD,
T. A. WITHERSPOON.

rection in Letters Patent No. 947,179.

It is hereby certified that the name of the State of incorporation of the assignee in Letters Patent No. 947,179, granted January 18, 1910, upon the application of Charles Francis Jenkins, of Washington, District of Columbia, for an improvement in "Collapsible Knockdown Boxes," was erroneously written and printed "New York," whereas it should have been written and printed *New Jersey*; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 14th day of June, A. D., 1910.

[SEAL.]

C. C. BILLINGS,

Acting Commissioner of Patents.

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