

(No Model.)

F. G. HOTCHKISS.
PAPER BOX.

No. 413,784.

Patented Oct. 29, 1889.

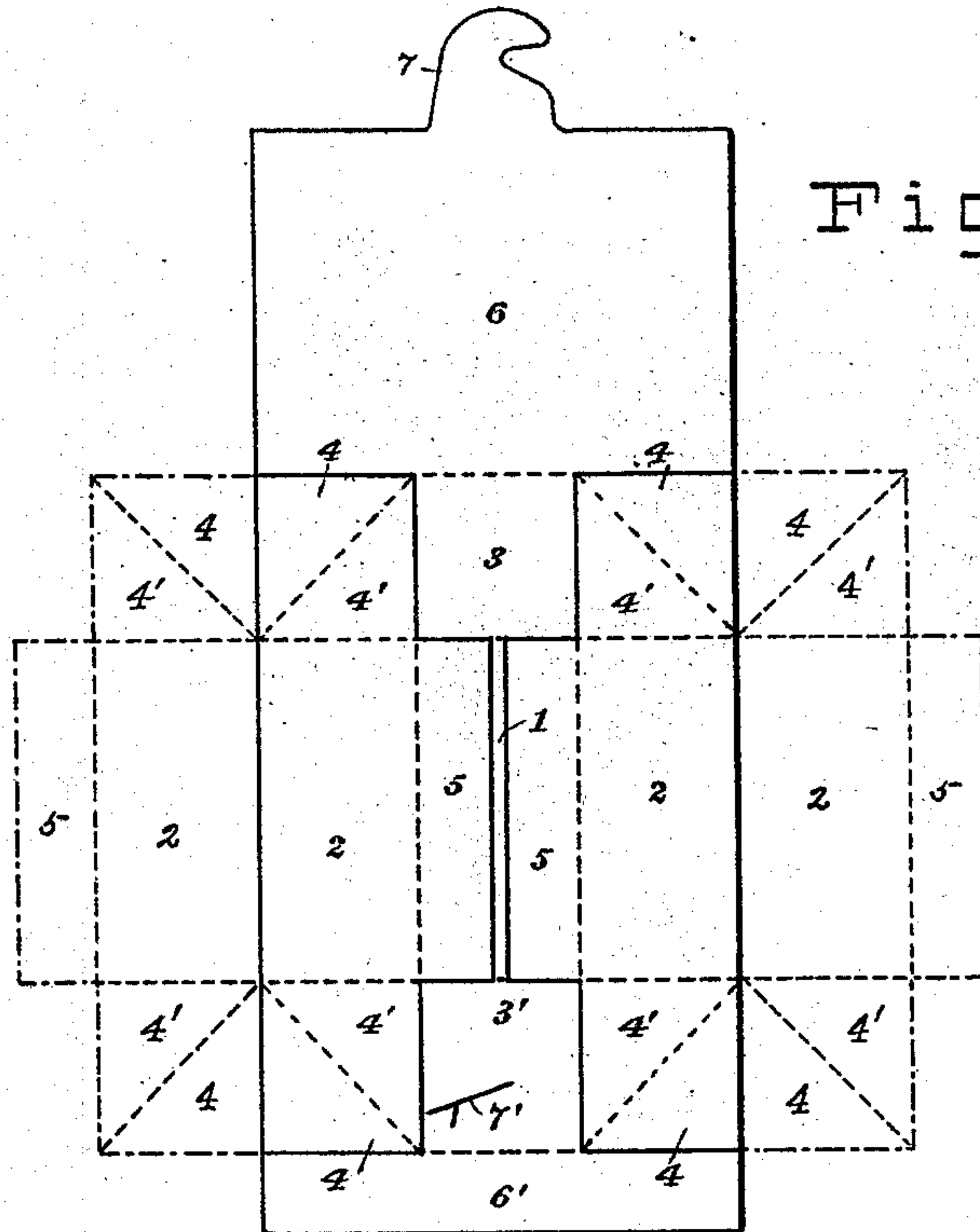


Fig. 1.

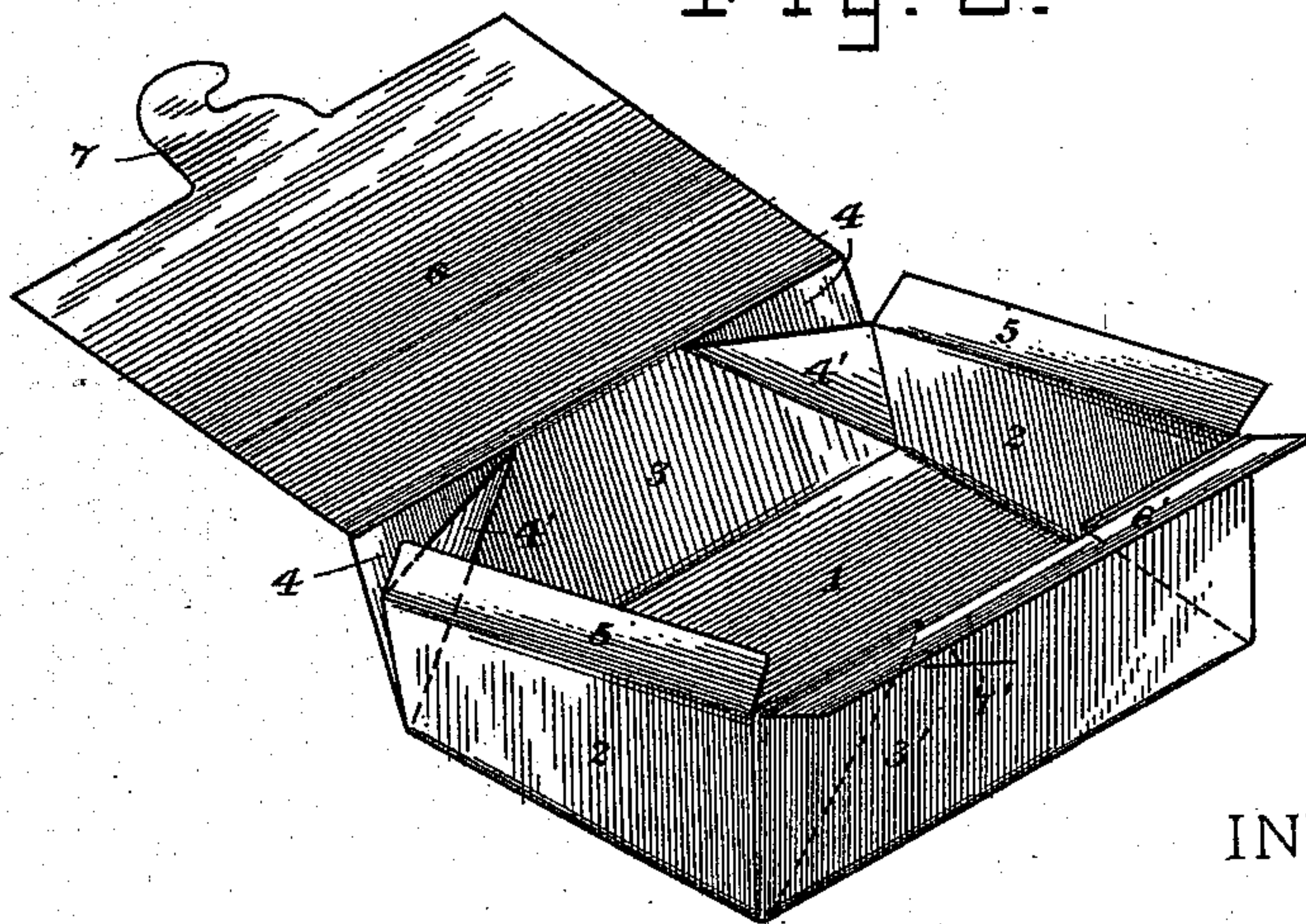


Fig. 2.

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PAPER BOX.

SPECIFICATION forming part of Letters Patent No. 413,784, dated October 29, 1889.

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To all whom it may concern:

Be it known that I, FREDERICK G. HOTCHKISS, a citizen of the United States, and a resident of Brooklyn, Kings county, New York, have invented certain Improvements in Paper Boxes, of which the following is a specification.

My invention relates to that class of boxes or receptacles which are made from paper or similar material, and which are adapted to be flattened out for packing and transportation and to be readily folded into shape for use by the person who has occasion to employ them. Such boxes are used by retail dealers in candies, &c.

The object of my invention is to provide such a box with integral covering-flaps and cover-fastening devices, whereby, when the box is folded and filled, it may be compactly closed or covered, so that the contents cannot escape.

My invention will be hereinafter fully described, and its novel features carefully defined in the claim.

In the drawings which serve to illustrate my invention, Figure 1 is a plan view of the flattened box or box-blank; and Fig. 2 is a perspective view of the box as it appears when folded or nearly folded into shape to form a receptacle, but before the cover-flaps are folded down.

The box is cut from a single sheet of paper or like material and properly creased for folding. In Fig. 1 the dotted lines represent the creases, the full lines show the box-blank as finished for the trade, and the broken lines (dot and dash) designate the outlines of certain parts of the blank before they have been folded in, as will be hereinafter described.

1 represents the rectangular bottom of the box.

2 2 represent the ends or shorter sides of the box.

3 3' represent the longer sides of the box.

At the corners of the box the adjacent sides and ends are connected by gussets, each of which is divided by a diagonal crease into two triangular plies 4 4'. When the box-blank is made, the ends 2 2 and the gussets are folded over inward upon the bottom and

sides 3 3', as indicated by the full lines in Fig. 1, and the ply 4 of each gusset is cemented or otherwise securely attached to the side 3 that it overlaps. On the margin of each end 2 is integrally formed an end cover-flap 5. On the side 3 is integrally formed a main cover-flap 6, broad enough to extend over and cover the entire box, and on the other side 3' is integrally formed a minor flap 6'.

If the flap or flaps 6 and 6' of the box-blank, as seen in Fig. 1, be seized and brought toward each other in a manner to bring the sides 3 3' into a vertical or upright position, the ends or shorter sides 2 2 will also assume an upright position. Fig. 2 illustrates this operation quite clearly, the view showing one side 3' upright and the other side 3 only partly upright or in place.

When the box-blank is formed into a receptacle in this manner, the several shorter cover-flaps are folded in and the main flap 6 folded down on the box. This main cover-flap 6 is secured by means of a hook 7 thereon, which is made to engage a suitable slit 7' in the side 3'. The box will then be firm and stiff and securely closed, so that its contents cannot possibly escape.

The box may be square instead of oblong, and the minor cover-flaps 5 5 and 6' may be of any suitable width. I prefer to cut the box-blank entire from a single sheet of paper, but it might of course be made from pieces secured together by cement or the like in a permanent manner. In any case the box as furnished to the trade will be in one piece.

The plies 4 of the several gussets are cemented to the box-sides; but other means for permanently securing them may also be employed.

I do not claim herein the inwardly-folded corner-gussets, as these are not new; but

What I do claim is—

As an improved article of manufacture, a folding box made from paper in one piece and consisting of the rectangular bottom, the sides 2 2, each having a cover-flap 5 on its edge, the side 3, having on its edge the main cover-flap 6, the side 3', having on its edge the cover-flap 6', and the corner-gussets, each

divided by a crease into two plies 4 and 4',
the plies 4 being permanently secured to the
box sides, which they overlap, said cover-flap
6 being provided with a hook which engages
5 a slit in one side of the box when the box is
closed.

In witness whereof I have hereunto signed

my name in the presence of two subscribing
witnesses.

FREDERICK G. HOTCHKISS.

Witnesses:

HENRY CONNETT,
J. D. CAPLINGER.