

J. F. WINCHELL.
Paper-Boxes.

No. 197,194.

Patented Nov. 13, 1877.

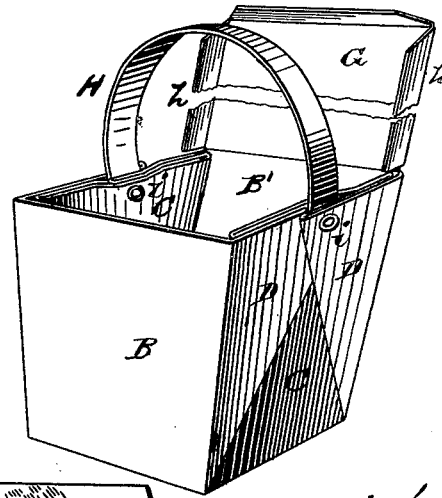


Fig. 1.

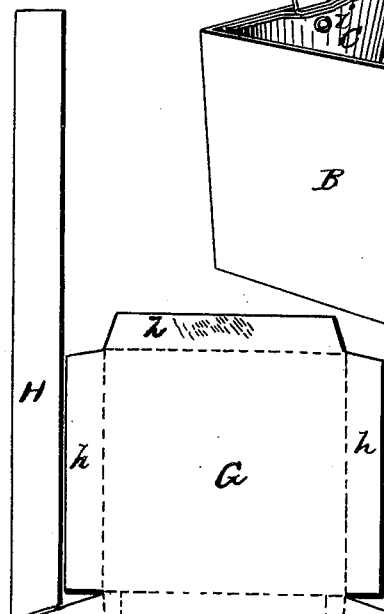
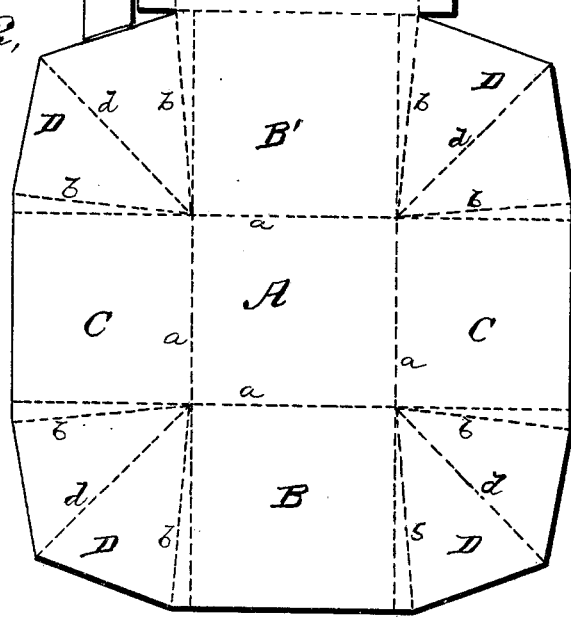


Fig. 2.



WITNESSES
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JAMES F. WINCHELL, OF SPRINGFIELD, OHIO, ASSIGNOR TO RUSSELL A. SCARFF AND ARTHUR C. WARNER, OF SAME PLACE.

IMPROVEMENT IN PAPER BOXES.

Specification forming part of Letters Patent No. **197,194**, dated November 13, 1877; application filed June 28, 1877.

To all whom it may concern:

Be it known that I, JAMES F. WINCHELL, of Springfield, in the county of Clarke and State of Ohio, have invented a new and valuable Improvement in Paper Boxes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of perspective view of my paper box, and Fig. 2 is a plan view of the same.

The nature of my invention consists in the method of cutting and fastening a paper box made of a single piece of paper, as will be hereinafter more fully set forth.

The annexed drawings, to which reference is made, fully illustrate my invention.

The blank of which the box is made is shown in Fig. 2, and is of a single piece of paper or similar material.

A is the bottom of the box, B B' the front and back, and C C the ends or sides thereof. These are laid off by drawing two pairs of parallel lines, *a a*, crossing each other at right angles. The four sides B B' and C C are, however, made wider at their upper than at their lower edges, by drawing the lines *b b* and folding the paper along said lines. The corner-pieces D D are cut off at their edges, as shown, and have a diagonal line, *d*, along which they are folded, so that when the blank is folded to form the box there will be two double triangular pieces along the inside or outside of each end C of the box.

From the outer edge of the back B' in the blank projects the cover G, which has flanges *h h* along its three edges, as shown.

Along one side of the lid G is cut a strip, H, which is intended to form the handle of the box.

It will thus be seen that the entire box, including the lid or cover with its folds or flanges, are all cut in one piece, and by the formation of the blank it will be understood that but very little waste of material occurs in cutting the blank, as the blanks are cut in re-

verse order alternately—that is to say, the next blank has its lid adjoining the lid shown, and the strips H, to form the handles, are cut at the same time from the waste on opposite sides of the two lids.

When the blank thus made has been folded to form the box, as shown in Fig. 1, the triangular pieces D at each end are fastened to the end piece C by an eyelet, *i*; or, if according to the shape of the box, it should be required, two or more eyelets at each end may be used.

The ends of the strip H are fastened with the same eyelets as shown, forming the handle for carrying the box.

The flanges *h* of the lid or cover G are turned downward, those at the ends being intended to fit either inside or outside of the box, and the one at the front to lap over the front edge of the box. This latter flange is intended to have mucilage or other adhesive substance applied to it, so that it can be fastened if desired.

In laying off and cutting the blank I do not confine myself to any particular shape or size, as the boxes may be made of any desired form, such as square, rectangular, or any other form, and of any size desired.

What I claim as new, and desire to secure by Letters Patent, is—

1. A blank for the manufacture of paper boxes, consisting of the bottom A, front B, back B', ends or sides C, double triangular corner-pieces D, and cover G, with flanges *h*, and handle H, all cut in one piece, substantially as shown.

2. A paper box consisting of the bottom A, front B, back B', sides C, double triangular corner-pieces D, cover G, with flanges *h* and handle H, all constructed and fastened together in the manner substantially as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JAMES F. WINCHELL.

Witnesses:

C. H. McEWEN,
ROBERT EVERETT.