

(No Model.)

E. M. SCOTT.
KNOCKDOWN PAPER BOX.

No. 474,610.

Patented May 10, 1892.

Fig. 1.

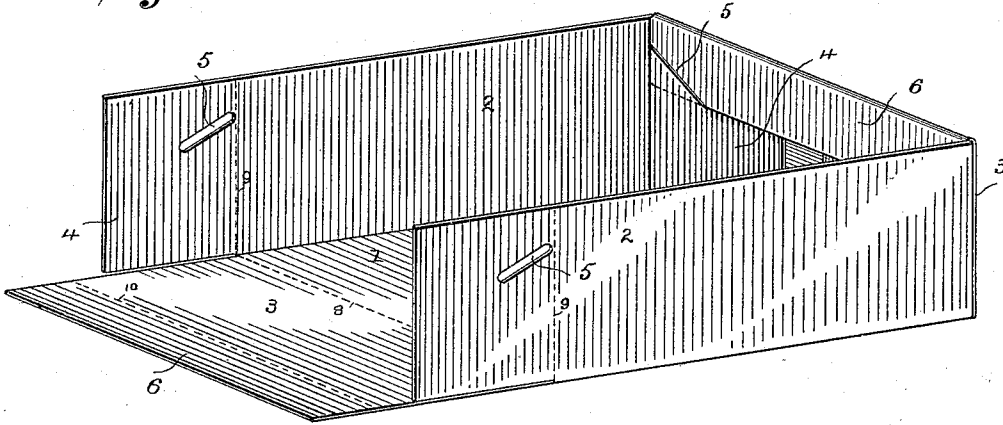


Fig. 2.

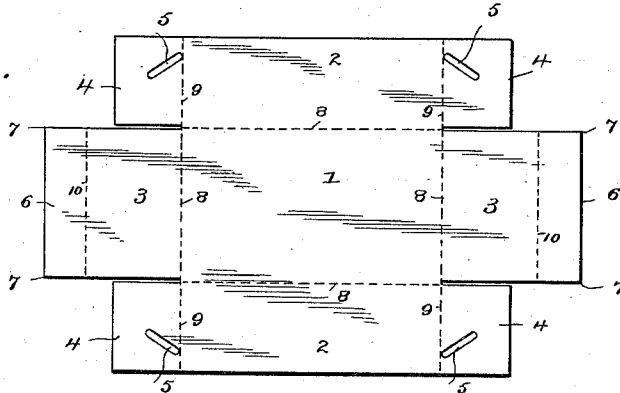
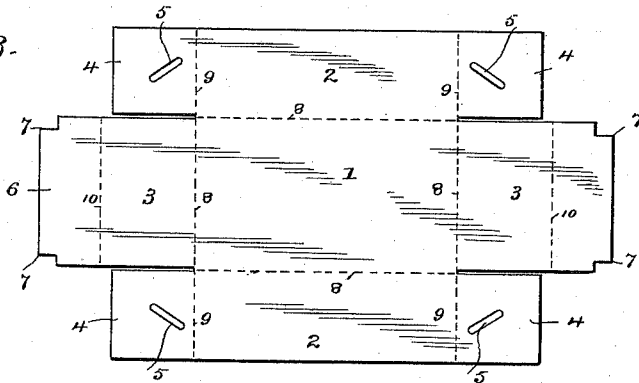


Fig. 3.



WITNESSES

H. A. Lamb
Edith G. Ely.

INVENTOR

Eben M. Scott
By
J. M. Webster
Att'y.

UNITED STATES PATENT OFFICE.

EBEN M. SCOTT, OF SHELTON, CONNECTICUT.

KNOCKDOWN PAPER BOX.

SPECIFICATION forming part of Letters Patent No. 474,610, dated May 10, 1892.

Application filed November 23, 1891. Serial No. 412,716. (No model.)

To all whom it may concern:

Be it known that I, EBEN M. SCOTT, a citizen of the United States, residing at Shelton, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Knockdown Paper 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.

My invention has for its object the construction of a knockdown paper box which shall be formed from a single paper blank and shall be self-retaining when set up ready for use—that is to say, the parts of the blank shall be so shaped that the use of paste, clamps, staples, &c., shall be entirely dispensed with, the box retaining its set-up form against strain applied from any direction, tongues being also dispensed with and all the parts being so shaped that danger of tearing the material in light boxes is wholly done away with.

With these ends in view I have devised the simple and novel knockdown paper box of which the following description, in connection with the accompanying drawings, is a specification, numerals being used to designate the several parts.

Figure 1 is a perspective of a box partially set up; Fig. 2, a plan view of the blank; and Fig. 3 is a plan view of another blank, illustrating a slight change in the details of arrangement.

It will of course be understood that my invention is applicable to all classes of boxes, whether the box or lids are made to telescope or whether the lids are more or less shallow. As the lids are made in precisely the same way that the boxes themselves are made, I have not deemed it necessary to illustrate a lid in the drawings.

1 denotes the central portion constituting the bottom of the box or the top of a lid; 2, the side pieces, and 3 the end pieces. The side pieces are provided at each end with flaps 4, detached from the end pieces, each flap being provided with an oblique slot 5. The end pieces are provided with flaps 6, which are adapted to fold over flaps 4 and the corners of which (designated by 7 in the drawings) are adapted to enter slots 5, as clearly shown in Fig. 1.

In Fig. 3 I have shown slots 5 as placed lower down in flaps 4 when in the set-up position and farther toward the center. In order to correspond therewith, the engaging corners 7 of flaps 6 are placed farther inward, as clearly shown. 8 denotes the lines of folding between the side and end pieces and the bottom or top, as may be.

9 denotes the lines of folding between the side pieces and flaps 4, and 10 denotes the lines of folding between the end pieces and flaps 6.

The operation of setting up will be readily understood from the drawings. Flaps 4 are folded upward on lines 9. The side pieces are then folded upward on lines 8, the end pieces then folded upward outside of flaps 4 on lines 8, flaps 6 are folded over flaps 4 on lines 10, and corners 7 are passed into slots 5. The gist of the invention lies in the oblique slots used in connection with the corners of the flaps, all tongues being thereby dispensed with. After the corners of flaps 6 have been placed in engagement with the slots outward strain upon the sides of the box or lid acts to place the lower edges of flaps 6 in contact with the lower ends of the slots. As there is no tendency to loosen flaps 6, it follows that flaps 4 must remain securely locked in position, so that the box or lid, as may be, will retain its set-up position against all the ordinary strains in use.

Many thousands of these boxes have been made and sold, and I find no necessity whatever for using paste, clamps, or staples.

Having thus described my invention, I claim—

A knockdown paper box formed from a blank consisting of a central portion, side pieces, and end pieces, said side pieces being provided at each end with flaps 4, detached from the end pieces, and each flap being provided with an oblique slot 5, and said end pieces being provided with flaps 6, which are adapted to fold over flaps 4 when assembled and the corners of which are adapted to enter the oblique slots.

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

EBEN M. SCOTT.

Witnesses:

H. W. VAUGHN,
W. G. BRALEY.