

M. HUTCHINSON.
 KNOCKDOWN CIGAR BOX.
 APPLICATION FILED MAY 26, 1909.

961,964.

Patented June 21, 1910.

Fig. 1.

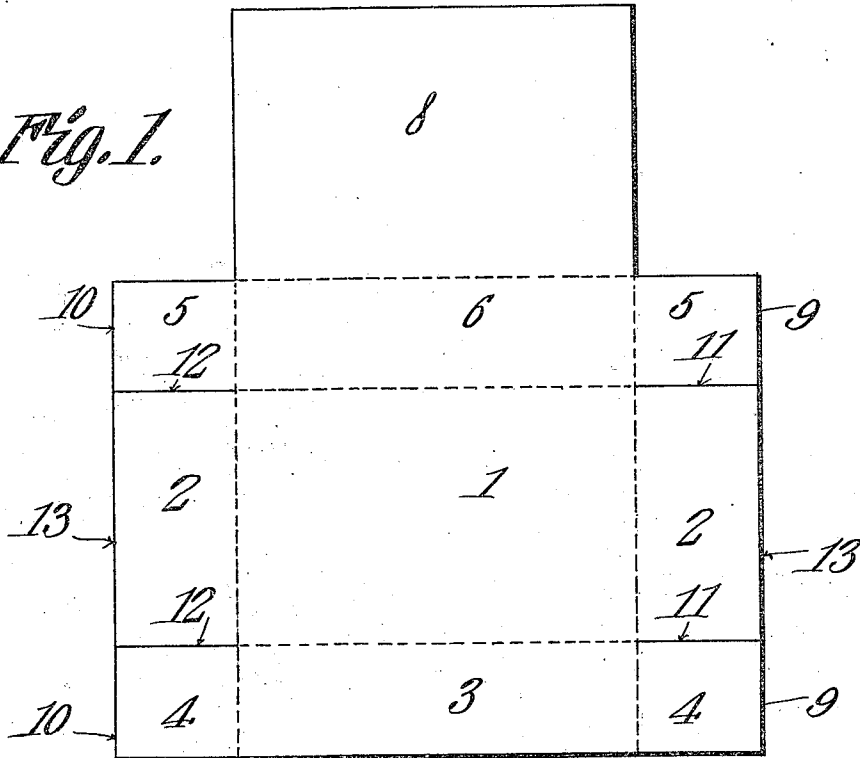


Fig. 2.

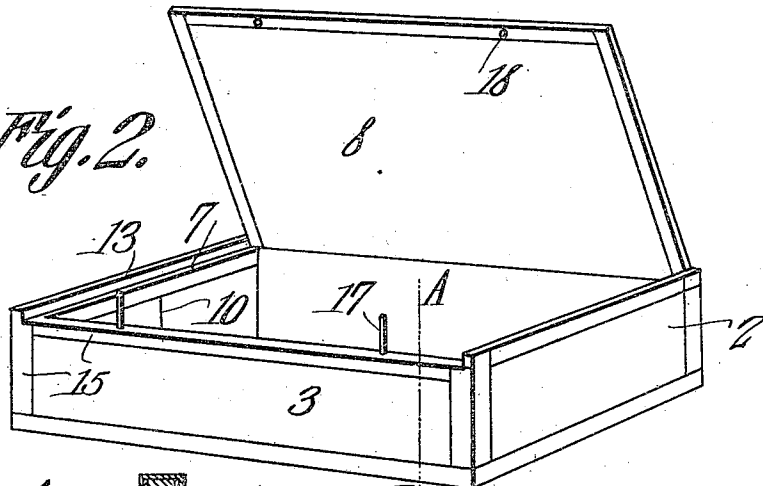
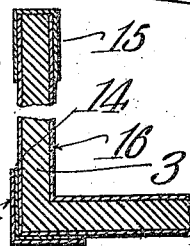


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

MALCOLM HUTCHINSON, OF MUSKEGON, MICHIGAN.

KNOCKDOWN CIGAR-BOX.

961,964.

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To all whom it may concern:

Be it known that I, MALCOLM HUTCHINSON, a citizen of the United States, residing at Muskegon, in the county of Muskegon and State of Michigan, have invented a new and useful Knockdown Cigar-Box, of which the following is a specification.

My invention relates to knockdown boxes, shipping cases and analogous containers, more particularly to knockdown cigar boxes, and has for an object to provide a device of this character in which the parts are so constructed as to reinforce the ends and form a support for the lid or cover while bringing the outer portions of the edges of the end walls flush with the upper surface of the lid or cover.

Another object is to provide a device of this character made from a single blank of fiber board so cut as to form the sides, ends, bottom and cover of the box in one continuous piece which may be veneered with wood if desired, the veneering, binding and labeling of the box being done while the boxes are in the flat, thus enabling the manufacturer to ship the boxes in the flat and economize in car space and, therefore, freight charges.

With these advantages and other objects in view, which will appear in the following specification and be set forth in the claim, my invention embraces the structure illustrated in the accompanying drawing, in which,

Figure 1 is a plan view of the blank from which the box is made. Fig. 2 is a perspective view of the completed box. Fig. 3 is a fragmentary section through the line A—B of Fig. 2.

In carrying out my invention, I employ a blank made from suitable thick and durable fiber board, all the parts of the blank being formed in a single integral sheet. The fiber board best adapted for the purpose should be built up of several thicknesses cemented together by some tasteless and odorless adhesive, such as silicate of soda, which would render the box impervious to moisture and deleterious substances and would also stiffen the sheet. The sheet is shaped to provide a rectangular main portion having a rectangular extension projecting from one of its side edges. The blank thus shaped is scored along the side edge from which the said extension projects and also on lines parallel with its side

and end edges, the scoring parallel with the end edges of the blank being on lines coincident with the end edges of the extension, all of which is indicated by dotted lines in Fig. 1. The blank thus shaped and scored presents a bottom portion 1, from which project integral end flaps 2 and side flaps 3 and 6, the extension on the side of the blank projecting from the side flap 6 and constituting a lid or cover 8.

The longitudinal scores are carried entirely through the body of the blank between the transverse scores and the end edges of the blank so as to form incisions or cuts 11 and 12 whereby semi-end flaps 4 and 5 will be provided. The said semi-end flaps 4 and 5 should be of such dimensions that when they are folded inward over the bottom 1 their edges 9 and 10 will meet and the end flaps 2 when folded up outside the semi-end flaps will have their edges 13 projecting slightly above the edges of the semi-end flaps so that ledges 7 will be provided upon which the ends of the cover 8 may rest between the edges of the end flaps, the upper surface of the cover being flush with the upper edges of the end flaps and the front edge of the cover resting upon the upper edge of the front side flap 3. To provide the ledges 7, the distance between the longitudinal scores and the adjacent edges of the blank is less than the distance between the transverse scores and the edges of the blank adjacent thereto so that when the blank is folded the upper edges of the end flaps 2 will project above the upper edges of the side flaps 3 and 6 and the upper edges of the semi-end flaps 4 and 5 a distance equal to the thickness of the cover and the side flaps and the semi-end flaps will have their edges in the same plane.

To fold the blank into box form, as shown in Fig. 1, the end pieces 4 and 5 are first bent upward so as to stand at right angles to their respective sides 3 and 6. The sides are then folded toward each other into upright position, the end edges 9 and 10 of the semi-end flaps abutting against each other and the bottom edges 11 and 12 resting on the bottom of the box. The end flaps 2 are now bent upwardly and cemented to the outer faces of the ends, and being slightly greater in width than the width of the said ends will extend beyond the upper edges thereof a sufficient distance to bring the upper edge 13 of the end flaps flush with

the upper surface of the lid or cover when the box is folded and closed.

To enable the fiber board to be bent to form the box, it will be necessary to score or crease it where the bend is to be made and the seams may be reinforced with paper or fabric 14 to give the box a smooth exterior at the intersection of the sides, bottom and ends. To give a neat and finished appearance to the box, the sides, ends, and cover are provided with an ornamental border 15, and are also veneered with paper or wood 16 to imitate Spanish cedar, the veneering, binding and labeling of the box being done while the fiber board is in the flat, so that all that is necessary to finish the box is to fold the different parts together and cement the ends.

It will thus be seen from the above construction that the end pieces which are integral with the sides are reinforced by the end extensions formed integral with the bottom, that these extensions are sufficient in width to extend above the end pieces when the parts are folded together and are flush with the upper surface of the same when the box is closed, also that the semi-end flaps form a ledge for the cover to rest upon, and finally that the cover when closed rests upon the said ledge, and is clamped between the said extensions to brace and stiffen the box to resist all racking strains to which it may be subjected.

The cover 8 of the box may be fastened down, when the box is folded together and filled, in any preferred manner, but a simple and effective fastening can be made of a pair of wire studs 17 secured to the upper edge of the front side 3 of the box and projecting upward to engage correspondingly arranged openings 18 formed in the cover of the box adjacent the front edge thereof,

the projecting ends being bent over to engage the upper surface of the cover and hold the same securely locked in place.

From the foregoing description, taken in connection with the accompanying drawings, it is thought that the construction and operation of my invention may be easily understood without a more extended explanation, it being understood that various changes in the form, proportion and minor details of construction may be made without sacrificing any of the advantages or departing from the spirit of the invention.

What is claimed is:

A cigar box folded from a single integral blank comprising a rectangular body or bottom, front and rear side flaps extending from the front and rear edges of the bottom or body portion and adapted to be folded up at a right angle to the bottom, semi-end flaps extending from the ends of the side flaps and adapted to be folded inward at right angles thereto to meet over the bottom and rest upon the same, end flaps projecting from the ends of the bottom and adapted to be folded up at right angles thereto outside of and against the semi-end flaps, the said end flaps being slightly wider than the side flaps and semi-end flaps to project above the same, and a cover formed on the outer edge of the rear side flap and foldable thereon to rest upon the front side flap and the semi-end flaps flush with the upper edges of the end flaps.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

MALCOLM HUTCHINSON.

Witnesses:

JOHN PLOUGHMAN,
FRED. M. BREUNINGER.