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Patented Feb. 8, 1910.

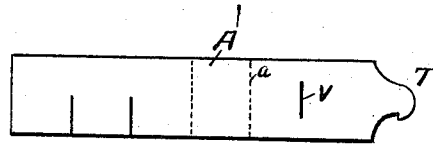
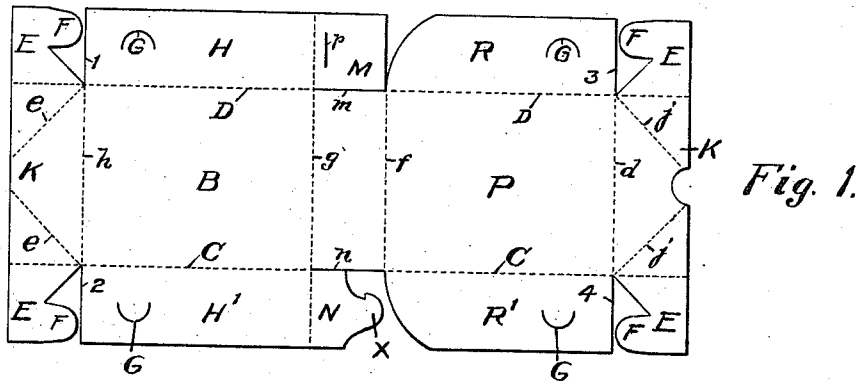
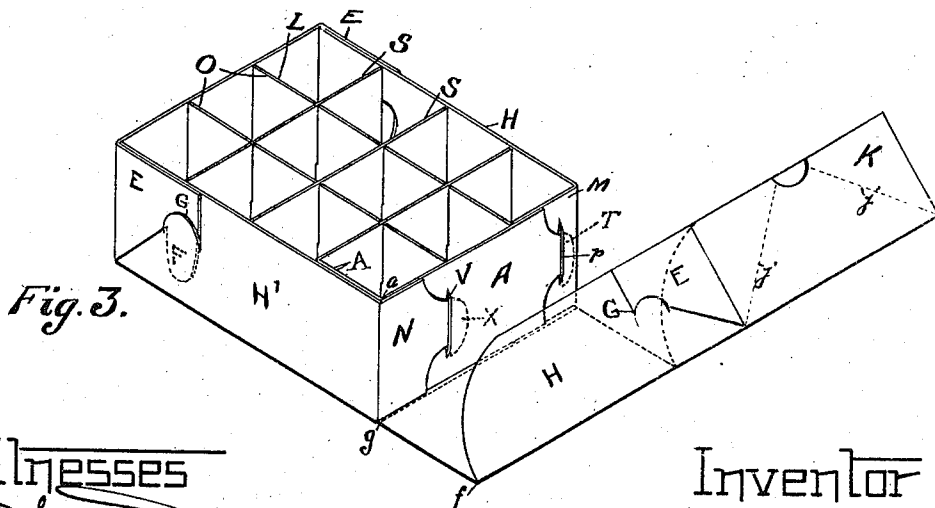


Fig. 2.



Wilnesses

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Inventor

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by Frederick W. Cameron. Atty.

UNITED STATES PATENT OFFICE.

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BOX.

948,967.

Specification of Letters Patent.

Patented Feb. 8, 1910.

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To all whom it may concern:

Be it known that I, EDMUND S. J. CHILD, a citizen of the United States of America, and a resident of the city and county of Albany and State of New York, have invented certain new and useful Improvements in Boxes, of which the following is a specification.

My invention relates to folding boxes, and the object of my invention is to provide a collapsible folding box adapted to be constructed of paper or other light material, which may be laid out flat for transportation when not in use, and may be quickly and positively placed in position for use. I accomplish this object by means of the mechanism illustrated in the accompanying drawing, in which:

Figure 1 is a plan showing the box flattened out in condition for shipment before use. Fig. 2 is a detail plan view of the locking strip A. Fig. 3 is a perspective view showing the cover partly raised in the act of being placed over the box.

Similar characters refer to similar parts throughout the several views.

The box is usually constructed of pasteboard or heavy paper, and is bent or creased for easy folding laterally along the lines C and D, which provides for a folding of the sides, H, H', R and R', to cause them to assume a substantially right angled position with the portion B, P. Near each end I preferably cut through the sides, H, H', R and R', as at 1, 2, 3 and 4, respectively, toward the medial line of the portion B and P, preferably to the lines D and C, respectively. I cut out a portion of E, E, a part of the side adjacent to the ends thus segregated by means of the cuts, 1, 2, 3 and 4, respectively, aforesaid, forming an engaging tongue, F, adapted to enter the semi-circular cut or openings, G, G, in the sides, H, H', R and R' of the box frame. I also preferably bend or crease the box transversely along the lines, d, f, g and h, and at each end I preferably crease the lines e, j, respectively. When the sides, H, H', R and R', are raised and the ends, K, K, are also raised and placed at right angles to the portion, B, P, the strips, E, E, are caused to overlap the sides, H, H', R and R', the tongues, F, F, entering the openings, G, G, which will hold the sides of the box in position.

One portion of the box is adapted to be used as a cover for the other portion, and for that purpose the portion P will be a cover for the portion B. In order to arrange the portion, B, for containing the articles desired to be placed therein, a filler or cell structure, L, may be used. The box containing portion will thus be formed by raising the sides, H and H', and end, K, securing them by means of the tongue, F, and openings, G, as already stated. The portion, M, which is a part of the side, H, but is separated, at *n*, from the portion, B, by being cut, is, when the side, H, is raised, folded to extend partly across the portion, B, as shown in Fig. 3. In the same way the portion, N, corresponding to the portion M, is cut along the line, *n*, and is folded over in the manner shown in Fig. 3.

The filler is made by arranging the strip of cardboard O to intersect and engage with the strips, S, S, placed at right angles thereto in the usual manner, as is shown in Fig. 3.

Preferably arranged along one of the sides, H', after the sides have been raised, as shown in Fig. 3, is a strip, A, which I call a locking strip, and which engages with the strips, O, O, forming the filler. The end of the strip is preferably provided with a tongue T, adapted to be inserted in the opening, *p*, in the portion M. The portion, M, is provided with a tongue X, adapted to be inserted in the opening V in the strip A. By means of the strip A thus arranged the filler is locked in connection with the sides of the box through the interconnection of the portions N and M, and thus holds the parts securely in position and makes them steady and causes the box to retain its contents without becoming loosened or broken.

For the purpose of covering the box the sides R and R' are placed at right angles to the portion P, the end, K, is placed in position, as before described, the portion thus formed is bent along the crease line *f* and *g*, the distance from the line *f* to *g* being substantially equal to the width of the side H, when in this position the end, K, is placed over the opposite end and the sides R and R' envelop the sides H and H'.

What I claim as my invention and desire to secure by Letters Patent is:

1. A folding box comprising a thin flat strip creased for folding laterally along lines a short distance from the side edges, where-

by when folded the portion between the creases and the edges will form the sides of the box and cover; said strip also creased from side to side along lines a short distance from each end, whereby the portion between said transverse creases and the ends may be folded at right angles to the main strip, one end forming the end of the box, the other the end of the cover therefor; said strip creased along two lines extending from one edge to the other about midway between the ends of the strip; said lines separated from each other a distance equal to the depth of the sides of the box; said strip cut from each side toward the medial line at each end, forming a locking portion adapted to overlap the sides of the box and cover at each end; said strip cut away at the sides about midway between its ends and also cut from said cut away portion toward one end of the strip, forming two pieces adapted to be introverted; one of said introverted portions provided with a locking tongue, the other with a slotted opening; a filler placed in the box; a locking strip cut to engage said filler and provided with a slotted opening with which the tongue on the end of the box engages; a tongue formed on said strip adapted to enter the said slot in the said locking strip forming the end of the box, whereby the ends of the box are positively in engagement with said strip, which is also in positive engagement with said filler, substantially as described.

2. A folding box comprising a thin flat strip arranged to be folded along the sides and ends and cut and creased midway between the ends; a portion of said cut and

creased part arranged to be folded to form a portion of the end of the box and a hinge for the cover thereof; one end of the box and one end of the cover provided with tongues engaging with slots in the sides of the box and cover, respectively; the ends of the box adjacent to the said hinged portion between the box and the cover provided with end portions, one having a tongue and the other a slot therein; a filler placed in said box; a locking strip provided with a tongue at one end and a slot intermediate of the ends, cut to engage and be held in position by said filler; the tongue on said locking strip inserted in a slot in one of the end pieces of said box; a tongue on the other end piece of said box entering the slot in said locking strip.

3. A folding box comprising a thin flat strip adapted to be folded in such a manner as to form a box partly open at one end and the cover therefor; a filler adapted to be placed in said box; a strip cut to engage said filler and bent to form a portion of the end of the box and provided with a tongue engaging a slot in the end of the box; one of the portions of the end of the box provided with a tongue engaging a slot in said strip, so arranged and connected up that said strip forms a part of the box and is positively in engagement with the filler therein.

Signed at Albany, N. Y. this 9th day of November 1908.

EDMUND S. J. CHILD.

Witnesses:

LOTTIE PRIOR,
FREDERICK W. CAMERON.