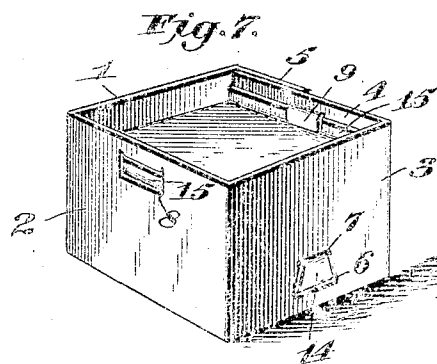
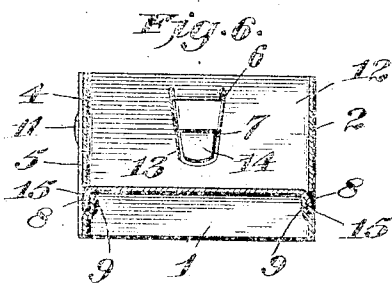
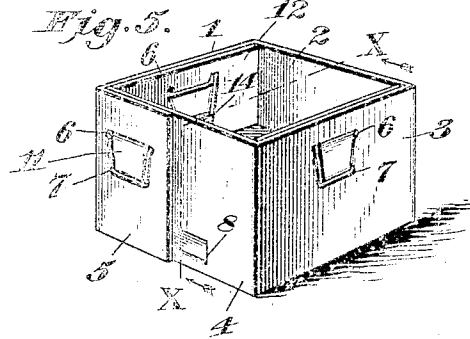
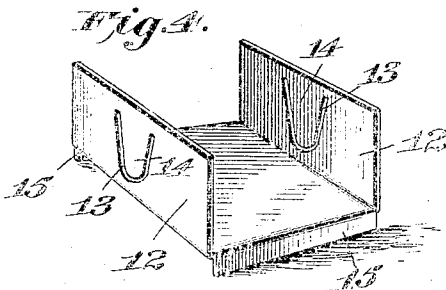
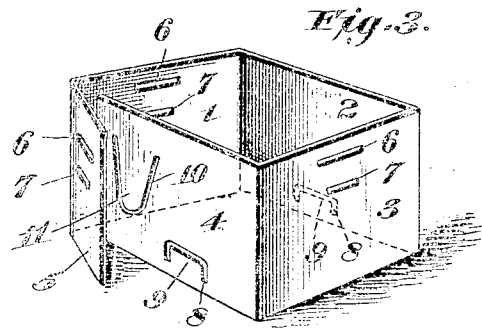
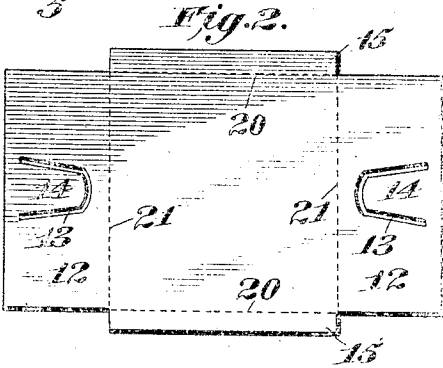
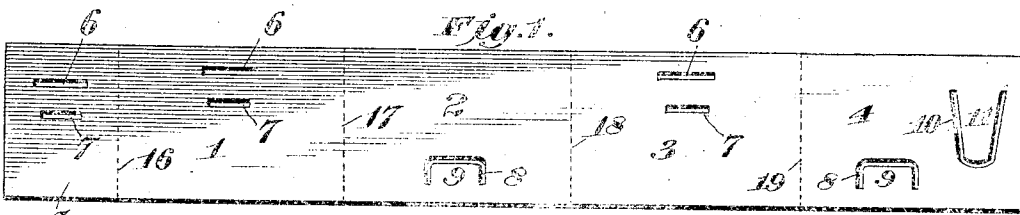


No. 786,605.

PATENTED APR. 4, 1905.

O. H. SCHMALZ.
BERRY BOX.

APPLICATION FILED APR. 15, 1904.



WITNESSES:

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UNITED STATES PATENT OFFICE.

OTTO HENRY SCHMALZ, OF HUNTLEY, ILLINOIS.

BERRY-BOX.

SPECIFICATION forming part of Letters Patent No. 786,605, dated April 4, 1905.

Application filed April 15, 1904. Serial No. 203,264.

To all whom it may concern:

Be it known that I, OTTO HENRY SCHMALZ, a citizen of the United States, residing at Huntley, county of McHenry, and State of Illinois, have invented certain new and useful Improvements in Berry-Boxes, of which the following is a specification.

My invention relates to folded paper boxes, and more especially to that class of boxes used for the purpose of packing fruits for shipping purposes where a number of boxes are intended to be packed together side by side in a crate for shipment.

The object of the invention is to simplify the construction of boxes of this general character and to make a box which will be stronger in every respect and one which can be put together in a very short period of time without the use of glue, nails, &c.

A still further object of the invention is the novel means employed for locking the bottom within the sides.

A still further object is to provide means for engaging the bottom to prevent the bulging of the sides and the bottom.

The invention consists of a blank piece of strawboard or other material which is folded to form the sides and which is provided with apertures and a blank folded to form the bottom and provided with locking-tongues adapted to engage the apertures in the sides of the first blank.

The invention further consists in the novel features and combination of parts, which will be more fully hereinafter described, and pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a plan view of the blank which forms the sides of the box. Fig. 2 is a plan view of the blank which forms the bottom. Fig. 3 is a perspective view of the blank folded and in position to be locked. Fig. 4 is a perspective view of the folded bottom-blank. Fig. 5 is a perspective view of the entire box looking down upon it. Fig. 6 is a sectional view taken on line *xx* of Fig. 5, and Fig. 7 is a bottom perspective view of the box.

The box is composed of a blank which is divided into five parts constituting sides 1 2 3 4 and a locking-flap 5. The sections or

sides 1, 3, and 5 are provided with two apertures or incisions, each of which extends in the line of the blank. These are numbered 6 and 7. Blanks 2 and 4 are provided with cuts 8, defining tongues 9, the object of which will be hereinafter described.

On the section 4 there is a cut 10, which forms the tongue 11, adapted to engage the apertures 6 and 7 of the locking-flap 5. The tongue 11 of the section 4 is adapted to enter the upper aperture 6 of the locking-flap 5 when folded, as shown in Figs. 3 and 5, and then to pass through the lower aperture 7 and to lie in the cut-out portion 10 inside of the box. The blank shown in Fig. 2 is folded, as shown in Fig. 4, and then inserted in the box, as shown in Fig. 5. This blank is provided with the locking-flap 12, having cut-out portions or incisions 13, defining tongues 14, which are adapted to engage first the apertures 6 of the sections 1 3 and then engage the lower aperture 7 and lie within the cut-out portion 13, formed in the blank. This blank is also provided with flanges 15, which are bent downwardly, as shown in Fig. 4, and are adapted to be engaged by tongues 9 on the sections 2 4, whereby the bulging of the sides and sagging of the bottom of the box is prevented. The blanks shown in Figs. 1 and 2 are folded upon the dotted lines 16, 17, 18, 19, 20, and 21 21.

In forming the tongue 11 in a transverse direction to the longitudinal plane of the blank and in forming the apertures 6 and 7 of the locking-flap 5 longer in the direction of the length of the blank I am enabled to get a much more secure locking-joint than could be obtained by forming the tongue from an extension of the blank and extended in the longitudinal plane of the blank, as most boxes of the present day use. In forming the locking-flaps 12 of the bottom blank in the manner shown I am enabled to reinforce two sides of the box, and in making the tongues 14 of the locking-flaps 12 in a plane with the longitudinal plane of the blank, so that they enter the apertures 6 and 7 of the sections 1 3 in a plane transverse to that of the side blanks, I am enabled to get a locking connection which prevents the bottom from being depressed too far. This

is also aided by the tongues 9 engaging the flanges 15.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a box of the class described, the combination with a surrounding wall comprising a plurality of sections, one or more of said sections provided with a plurality of horizontal slots, of a bottom, locking-flaps integral with said bottom, tongues carried by said locking-flaps adapted to engage said slots to support the bottom, upright tongues on the wall, and depending flanges on the bottom adapted to be engaged by the upright tongues whereby the sides of the wall are prevented from bulging.

2. In a box of the class described, the combination with a surrounding wall comprising a plurality of sections, one or more of said sections having a plurality of horizontal slots, the other of said sections provided with upright tongues, of a locking-flap carried by said sections, a transverse tongue carried by one of said sections adapted to engage the

slots of the locking-flap to lock the wall in position, a bottom provided with upright flaps having depending tongues adapted to engage the horizontal slots in the wall, and depending flanges on the bottom adapted to engage the upright tongues to prevent the walls from bulging and to support the bottom.

3. In a box, the combination with a surrounding wall, of a bottom blank, flaps bent up from the bottom blank and provided with depending tongues, flanges on said bottom blank bent in an opposite direction from the flaps and upright tongues on the surrounding wall adapted to engage the flanges to assist in supporting the bottom, said surrounding wall provided with a plurality of apertures adapted to receive the depending tongues of the flaps whereby the bottom is further supported.

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

OTTO HENRY SCHMALZ.

Witnesses:

ISAAC H. ADRIAN,
CHARLES A. PRATT.