

Feb. 19, 1929.

1,702,945

C. F. MEISNER

SELF LOCKING FRUIT BOX

Filed Dec. 20, 1926

2 Sheets-Sheet 1

Fig. 1.

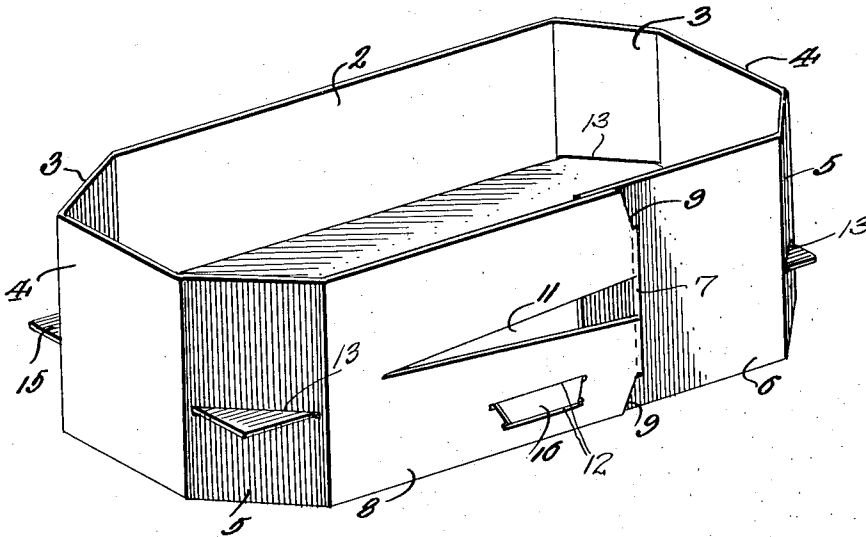


Fig. 2.

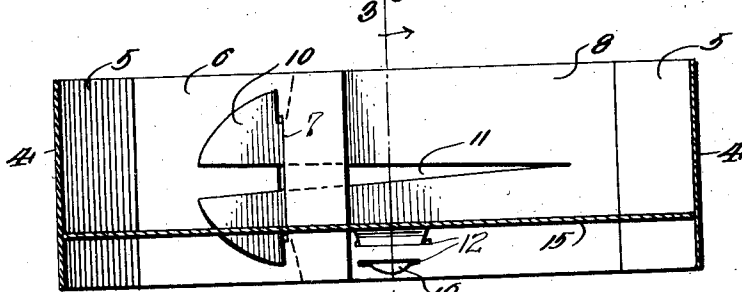
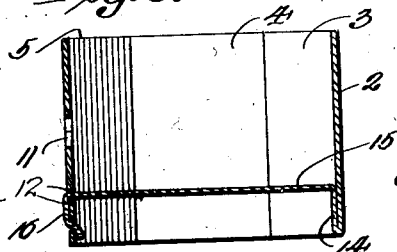


Fig. 3.



WITNESSES

Guy M. Spring

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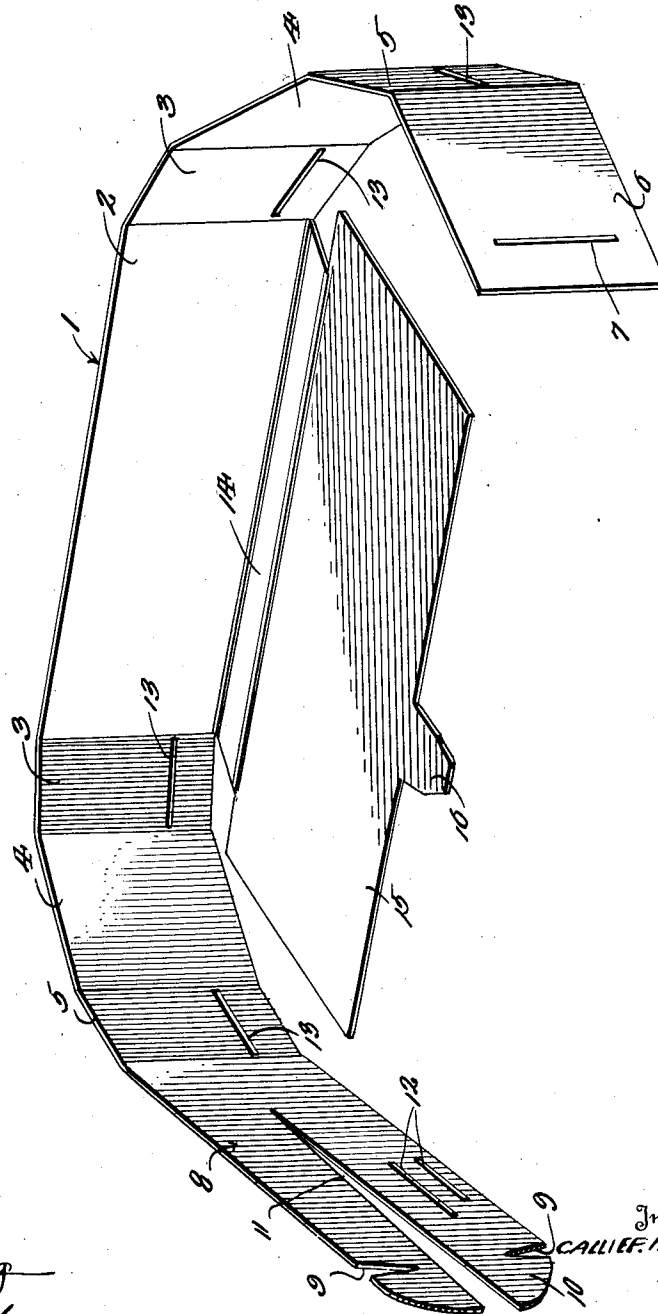
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2 Sheets-Sheet 2

Fig. 4.



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UNITED STATES PATENT OFFICE.

CALLIE F. MEISNER, OF KANSAS CITY, KANSAS.

SELF-LOCKING FRUIT BOX.

Application filed December 20, 1926. Serial No. 156,006.

This invention relates to packing receptacles and pertains particularly to a collapsible box intended primarily for holding fruit, such as berries or the like.

5 A primary object of this invention is the provision, in a manner as hereinafter set forth, of a collapsible box of such construction that the same may be made of cardboard, but will have all the strength and stability
10 of a wooden box.

Another object of the invention is the provision, in the manner as hereinafter set forth, of a folding box which can be constructed of comparatively inexpensive material and
15 though inexpensively made will not lack any of the good qualities of other boxes of this character which are constructed of more expensive material.

Another object of this invention is the provision in a manner hereinafter set forth, of a box which may be easily and quickly assembled for use without the use of any securing elements other than those forming an integral part of the box structure.

25 The invention will be best understood from a consideration of the following detailed description taken in connection with the accompanying drawings forming a part of this specification, with the understanding, however, that the invention is not confined to any strict conformity with the showing of the drawings, but may be changed or modified so long as such changes or modifications mark
30 no material departure from the salient features of the invention as expressed in the appended claims.

In the drawings:

Figure 1 is a perspective view of a box constructed in accordance with this invention.

40 Figure 2 is a longitudinal sectional view of the box.

Figure 3 is a transverse section taken upon line 3—3 of Figure 2, and

Figure 4 is a perspective view of the box in
45 partially folded condition.

Referring now to the drawings in detail, wherein like numerals of reference indicate corresponding parts throughout the several views, it will be seen that the receptacle embodying this invention is formed from an integral blank of sheet material indicated generally by the numeral 1.

The blank comprises a relatively long unbroken portion 2, constituting one side wall, at each end of which there is formed a series

of three panels or sections 3, 4 and 5, which sections or panels are hingedly connected together by vertical folds and as shown the panels 3 are hingedly connected to the side wall 2.

One of the panels 5 has integrally connected thereto, by a vertical fold, one section 6 of the other side wall of the body, through which there is formed, vertically and adjacent the free end thereof, a slot 7.

The other section 5 has connected thereto, by a vertical fold, the other section 8 of the said other side wall, which section 8 has formed in its top and bottom edges and adjacent the free end thereof V-shaped notches 9, providing head portions 10 upon the end of this section.

The said section 8 has, extending inwardly from the free end thereof and along its center, a V slot 11 which, as is clearly shown, extends substantially the entire length of the section and provides spaced locking tongues at the forward ends of which the head portions are located.

Formed through the section 8 and substantially midway between the ends thereof and between the slot 11 and the lower edge is a pair of slots 12, located one above the other as clearly shown in Figure 4.

Each of the panels 3 and 5 also has a slot cut therethrough and transversely of the panel as indicated by the numeral 13, and these slots 13 are the same distance above the lower edge of the blank 1 as the upper one of the slots 12.

Integral with and extending throughout the lower edge of the side wall 2 is a web 14, which is designed to be folded upwardly against the inner side of the side wall 2, and when so folded its upper edge will be in alignment with the slots 13.

Integral with the upper edge of the web portion 14 is a bottom 15 which bottom is of greater length than the web portion 14 and side wall 2 as is clearly shown in Figure 4. Extending from the central portion of the free longitudinal edge of the bottom 15 is a tongue 16, designed, when the box is set up, to be threaded through the slots 12 in the side wall section 8.

In setting up the box the web portion 14 is folded upwardly against the inner face of the side wall 2, thus positioning the bottom above the lower edge of the body blank 1. The panels 3, 4 and 5, at each end of the bottom,

are then folded inwardly and each corner of the bottom 15 is extended through an adjacent one of the slots 13 as shown in Figure 1. The section 6 of the other side wall is then folded inwardly against the free outer edge of the bottom after which the section 8 of said wall is folded against the said edge of the bottom at the other end thereof and the heads 10 of the locking tongues passed through the slot 7 of the section 6.

Since the slot 7 is of a length materially less than the height of the section 6 in which it is formed it is apparent that the upper and lower tongues which are provided through the formation of the slot 11, must be brought together in order to pass the head portions 10 through the slot. After the head portions of the tongues have been passed through the slot, the tongues spring apart and the notches 9 will engage at the upper and lower ends of slot 7 to hold these wall sections 6 and 8 in interlocked relation. The tongue 16 of the bottom is then passed outwardly through the upper one of the slots 12 and folded downwardly and back through the lower one of the slots as clearly shown in Figures 2 and 3.

It will be observed by reference to the drawings and particularly to Figures 1 and 4 thereof that the wall sections 3 and 5 of the box are diagonally disposed, in the set up condition of the box, and that the wall sections 4 are disposed in planes parallel to each other and at right angles to the side wall sections of the box.

From the foregoing description it will be readily seen that there is provided a box having a solid wall structure, and further having a bottom securely braced at six points and, therefore, not likely to collapse easily. For the packing of berries or other very juicy or watery fruit the inner surfaces of the box may be coated with wax or a like substance to prevent the material of the box from absorbing the juices of the fruit. The side wall 2 being smooth and unbroken also presents a surface

which might be readily employed for the application of a name or advertising matter.

Having thus described my invention, what I claim is:

1. A receptacle of the class described comprising side wall sections, end walls each including spaced diagonal sections and intermediate sections occupying parallel planes and planes at right angles to the planes of the side wall sections, the diagonal end wall sections having horizontal slots therein in spaced relation to their lower edges, a web integrally connected by a fold with the lower edge of one of the side wall sections and extending longitudinally throughout the length of said edge of said section, and a bottom integrally connected by a fold with the other edge of the web and of a length greater than that of the web, the said bottom being of rectangular form and having its corner portions projected through the slots in the diagonal wall sections.

2. A receptacle of the class described comprising side wall sections, end walls each including spaced diagonal sections and intermediate sections occupying parallel planes and planes at right angles to the planes of the side wall sections, the diagonal end wall sections having horizontal slots therein in spaced relation to their lower edges, a web integrally connected by a fold with the lower edge of one of the side wall sections and extending longitudinally throughout the length of said edge of said section, a bottom integrally connected by a fold with the other edge of the web and of a length greater than that of the web, the said bottom being of rectangular form and having its corner portions projected through the slots in the diagonal wall sections, the other side wall section having a horizontal slot therein spaced with respect to its lower edge, and a tongue upon the free edge of the said bottom engaged through said slot.

In testimony whereof she has affixed her signature.

CALLIE F. MEISNER.