No. 874,100. PATENTED DEC. 17, 1907.

A. MERCKENS.

BOX.

APPLICATION FILED MAR. 13, 1907.

Fig. 1.

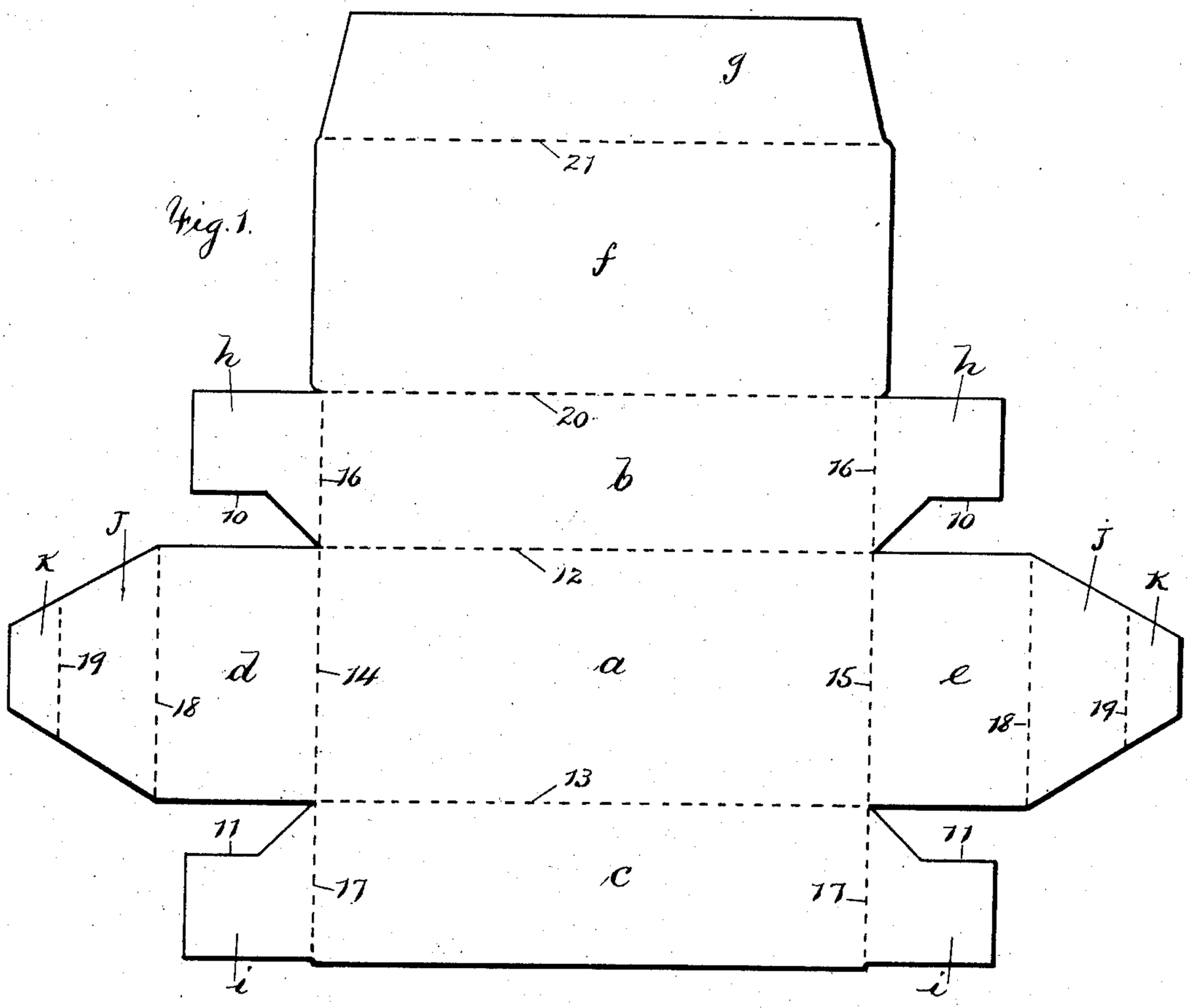


Fig. 2.

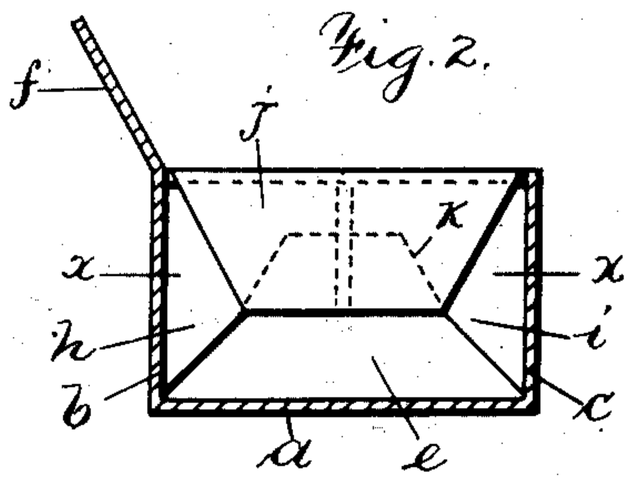
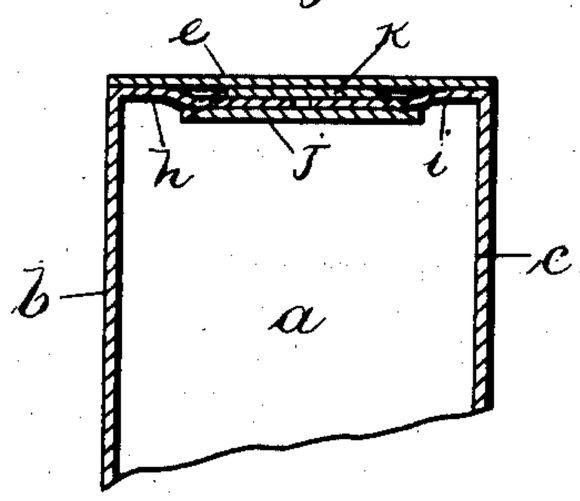


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

AUGUST MERCKENS, OF NEW YORK, N. Y.

BOX.

No. 874,100. Specification of Letters Patent. Patented Dec. 17, 1907.

Application filed March 13, 1907. Serial No. 362,099.

To all whom it may concern:

Be it known that I, AUGUST MERCKENS, a citizen of the United States, residing at Bath Beach, in the borough of Brooklyn, county of Kings, city and State of New York, have invented an Improvement in Boxes, of which the following is a specification.

My present invention relates to boxes and particularly to knock-down boxes adapted to contain confections and other similar goods, the object thereof being to provide a box of this class so constructed that when set up and filled the contents of the box co-acts with the parts or members thereof to assist in maintaining the same in their set up relationship.

In carrying out my invention I employ a sheet of suitable material so shaped and cut as to be folded to form the bottom, side, end, and top members of a box. Each end member of my improved box is preferably composed of parts connected to or integral with the bottom and side members, there being provided end outer members and end inner members preferably integral with the bottom member of the box, end intermediate members preferably integral with the side members of the box, and means connected to or integral with the said end inner members and adapted to be passed under the lower edges of the said end intermediate members and to lie between the same and the said end outer members to maintain the parts of the box in their set up relationship, as will be hereinafter more particularly described.

In the drawing Figure 1 is a plan of a blank cut to form my improved box, Fig. 2 is a section taken transversely through the box when set up, and Fig. 3 is a section on line *x x* Fig. 2.

According to my present invention I employ a blank of cardboard or other similar suitable material shaped as illustrated in Fig. 1 and adapted to be folded on the dotted lines 12 to 21 inclusive to form my improved box.

a designates the bottom member, *b c* respectively are the oppositely disposed side members preferably integral with the bottom member *a*, and *f* is the top member integral with the side member *b* and *g* is a flap integral with the top member *f*. *d e* respectively are end outer members integral with and extending from the opposite ends of the said bottom member *a*, and *j j* are end inner members preferably extending from and integral with the said end members *d e* respectively. Integral with and extending from the ends of the side member *b* there are end intermediate members *h h* each provided with an angular cut away portion as indicated at 10, and similarly, integral with and extending from the ends of the side members *c* there are end intermediate members *i i* each provided with an angular cut away portion indicated at 11, corresponding in all respects to the cut away portions 10 in the said end intermediate members *h h*. Each end inner member *j* is provided with a tongue *k* preferably integral therewith and extending therefrom and the opposite edges of each end inner member *j* and its tongue *k* are preferably inclined or tapering toward the outer or free edge of the tongue *k* thereof.

Now in setting up the box to be made from the hereinbefore described blank the side members *b c* are first folded on the dotted lines 12 and 13 respectively to positions at right angles to the bottom member *a*, the end intermediate members *h h* and *i i* are then folded in turn on the dotted lines 16 and 17 respectively to positions at right angles to their respective side members *b c* so that each pair of end intermediate members *h i* are in a straight line, and next the end outer members *d e* are folded in turn on the dotted lines 14 and 15 respectively to positions also at right angles to the bottom member *a* and in which positions their inner surfaces will contact with the outer surfaces of the end intermediate members *h i*. Then the end inner members *j j* are folded in turn on the dotted lines 18, each end inner member *j* being turned over the upper edges of the adjacent end intermediate members *h i* and down against their inner surfaces. The tongue *k* of each end inner member is then folded on its dotted line 19 and passed under the cut away portions 10 and 11 of the said end intermediate members *h i* and turned up and caused to lie or assume a position between the said end intermediate members and the adjacent end outer member, either *d* or *e*. The top member *f* may now be folded on the dotted line 20 and the flap member *g* on the dotted line 21 to form a cover for the box.

From Figs. 2 and 3 which show the parts of the box in their set up positions, it will be noted that the length of the base of each tongue member *k* is such that the same just fits into the angles of the cut away portions 10 and 11 of the end intermediate members

h and *i*, and that when the box is filled the contents thereof will press against the end inner members *j j* keeping the tongue members *k k* in place between the said end intermediate members and the said end outer members and so maintaining the parts of the box in their set up relationship.

I claim as my invention.

A box comprising a bottom member, side members integral therewith, an end outer member and a tapering end inner member extending from both ends of the said bottom member and integral therewith and with each other, end intermediate members integral with and extending from the ends of the said side members and each provided with an angular cut away portion along its lower edge, and a tapering tongue integral with and extending beyond each of the said tapering end inner members and adapted to be folded under the said angular cut away portions of the said end intermediate members adjacent thereto and to fit within the angular parts of the said cut away portions of the intermediate members and to lie in a position between the same and the adjacent end outer member to maintain the parts of the box in their set up relationship.

Signed by me this 28th day of February 1907.

AUGUST MERCKENS.

Witnesses:
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WILLIAM K. JERMY.