

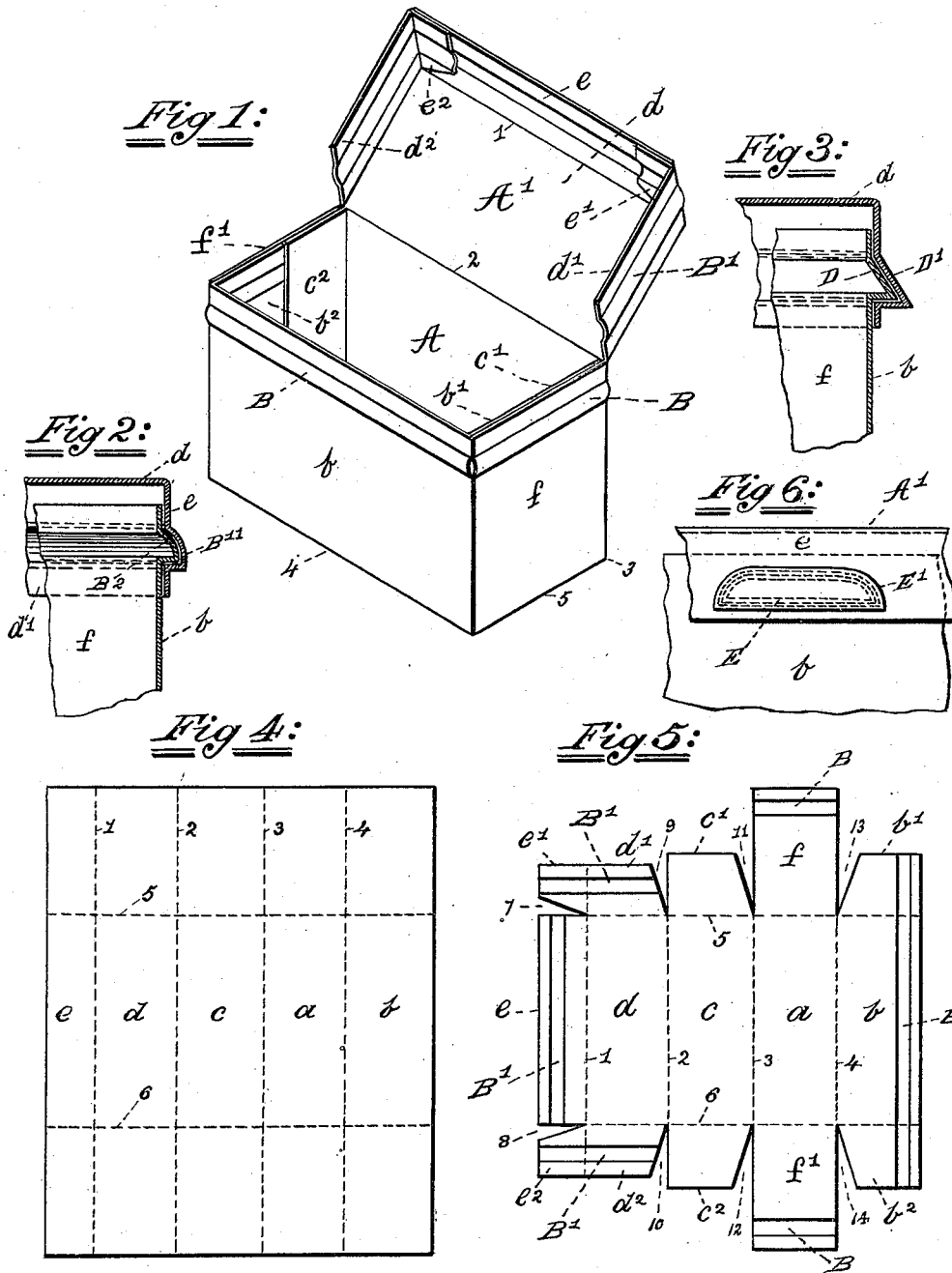
No. 649,226.

Patented May 8, 1900.

S. B. THOMSON.
PAPER BOX.

(Application filed Jan. 27, 1900.)

(No Model.)



WITNESSES:

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PAPER BOX.

SPECIFICATION forming part of Letters Patent No. 649,226, dated May 8, 1900.

Application filed January 27, 1900. Serial No. 2,963. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL B. THOMSON, a citizen of the United States, residing at Paterson, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Paper Boxes, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of my invention is to provide a pasteboard box which will be simple in construction, durable, and cheap, and more particularly to provide a means for locking or detachably securing the cover to the body of the box when closed, so that the box may be closed and opened with facility, whether the box comprises one or more parts.

The invention relates to such improvements; and it consists of the novel construction and combination of parts hereinafter described and subsequently claimed.

Similar letters and numerals refer to similar parts in the several figures in the drawings.

Figure 1 of the drawings is an isometrical view of the box with the cover thrown back, showing the reinforced corners and the embossed or raised portions of box body and cover forming the locking or securing device.

Figs. 2 and 3 are enlarged detail views of portions of box when closed, showing sections of box body and cover locked, in the former the embossed or projecting lip being rounded on top and square on bottom and in the latter having an angled top and square bottom.

Fig. 4 is a plan view of the integral blank, scored or lined for folding, from which my improved box is made. Fig. 5 is a plan view of the integral blank cut in proper form, scored for folding, and embossed in portions to form the locking device. Fig. 6 is a detail showing a modification of the embossed or locking portion on part of front of box and cover in elevation.

My embossed locking device may be employed in a box of two pieces—the cover and the body portion—and the extent or shape of the embossed portion and the location thereof may be varied without departing from the essential principles of my invention. I prefer to construct my box from a single integral piece of pasteboard or similar suitable sub-

stance by taking a blank and scoring it on both sides, forming folding or creasing lines corresponding with the dotted lines 1, 2, 3, 4, 5, and 6 in Figs. 4 and 5 of the drawings, the scored lines on one side of the blank being diametrically opposite to the lines on the other side. The blank is thus subdivided into various parts and is then cut to form the shape shown in Fig. 5, and one or more portions are pressed or embossed to form the raised lip or locking device B and B', which may be of any particular shape or form, as shown in the drawings, or which may be pressed or embossed, so that the embossed or raised portions in the box and cover may project inwardly instead of outwardly without departing from the spirit of my invention. As shown in Fig. 5, gusset-pieces are cut out at 7, 8, 9, 10, 11, 12, 13, and 14 to form the box and cover of an integral piece. The blank is scored on both sides, cut, pressed, or embossed, folded, and glued by machine.

In the drawings, A represents the body of box, and A' the lid or cover. The body A is formed by bending up the ends *f* and *f'* along the dotted lines 5 and 6 to form end walls, the portion *a* representing the bottom of the box, and the parts marked *b* and *c* are bent up in like manner along the dotted lines 3 and 4 to form the front and back wall, respectively, of the box-body. The flaps *b'* and *b''* are bent over along the dotted lines 5 and 6 and are passed inside of the end walls *f* and *f'*, reinforcing the same, to which they are secured by glue or its equivalent. The flaps *c'* and *c''* are bent up and passed inside of the end walls *f* and *f'* and secured in like manner, the raised or embossed portion of the end walls *f* and *f'* locking over the corresponding embossed strip on the introverted flaps *b'* and *b''*. The part *d* is bent up along the dotted line 2 and forms the top or cover A'. The portion *e* is bent over along the dotted line 1, forming the front rim of the cover. The parts *d'* and *d''* are likewise turned up along the dotted lines 5 and 6, and the flaps *e'* and *e''* are bent at the dotted line 1 and are introverted and secured to the inside of the front rim *e* of the cover by glue or its equivalent, the interior of the embossed portion of the rim *e* locking over the raised or embossed portion of the flaps *e'* *e''*. The box thus produced is as rep-

resented in Fig. 1 when open. When shut, the cover A' passes down on the outside of the front and end walls of the body of the box, the raised or embossed portion of the box-body fitting into the interior or sunken side of the raised or embossed portion of the lid or cover in a sufficiently-snug embrace to keep the box locked or closed.

Whether the projecting lip or raised embossed portion to form the locking device be the rounded shape indicated by B and B' or the rounded top and square bottom indicated by B² and B¹¹ in Fig. 2 or the angle top and square bottom indicated by D and D' in Fig. 3, or whether it extend all around the rim of the box and lid or be confined to the corners of the same or to the front and sides or to a central portion only, as shown in Fig. 6 by E and E', is immaterial, as all are embraced by my invention, as well as other modifications not necessary to mention.

With this description of my invention, what I claim is—

1. A paper box, the body and cover of which are made from a single integral piece or blank, the body having reinforced end walls, the front and back walls of the body having extension-flaps adapted to be introverted to reinforce the end walls and strengthen the corners; the front and end walls of the body being pressed, without perforating the material, near the upper edges thereof, to form a projecting ridge, the front and end walls of the cover being likewise pressed, without puncturing the material, to form a continuous recess adapted to be engaged by and to overlap the projecting ridge of the body, substantially as set forth.

2. In a paper box the body and cover of which are made from one continuous blank,

a locking device consisting of a projecting ridge, extending around the body portion adjacent to the upper edges of the walls, formed by pressing the material of which said walls are made, without puncturing or perforating the same, and a similar projecting ridge extending around the walls of the cover, formed in like manner without cutting or perforating the material, and adapted to fit over and be held by the ridge on the body portion, substantially as set forth.

3. A blank for a paper box, composed of the bottom part *a*, the ends walls *f* and *f'*, each having the projecting lip or ridge B, B', formed by pressing the material without puncturing or perforating the same, the front wall *b* having the flaps *b'* and *b²* said wall and flaps having a similar projecting lip or ridge B formed in like manner, said ridge on said flaps being adapted to fit into the hollow side of the ridge B in end walls *f* and *f'*, the part *c* forming the back wall and having the flaps *c'* and *c²*, the part *d* forming the top of cover A' having the flaps *d'* and *d²*, and the extension-flaps *e'* and *e²* said flaps being pressed to form a ridge on one side of the material and recess on opposite side of material, the part *e* forming the front wall of cover pressed in like manner forming projection B' on one side of the material and an extended or hollow recess on the other side, in which the projection on the extension-flaps *e'* and *e²* is adapted to fit, substantially as set forth.

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

SAMUEL B. THOMSON.

Witnesses:

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E. M. RODROCK.