

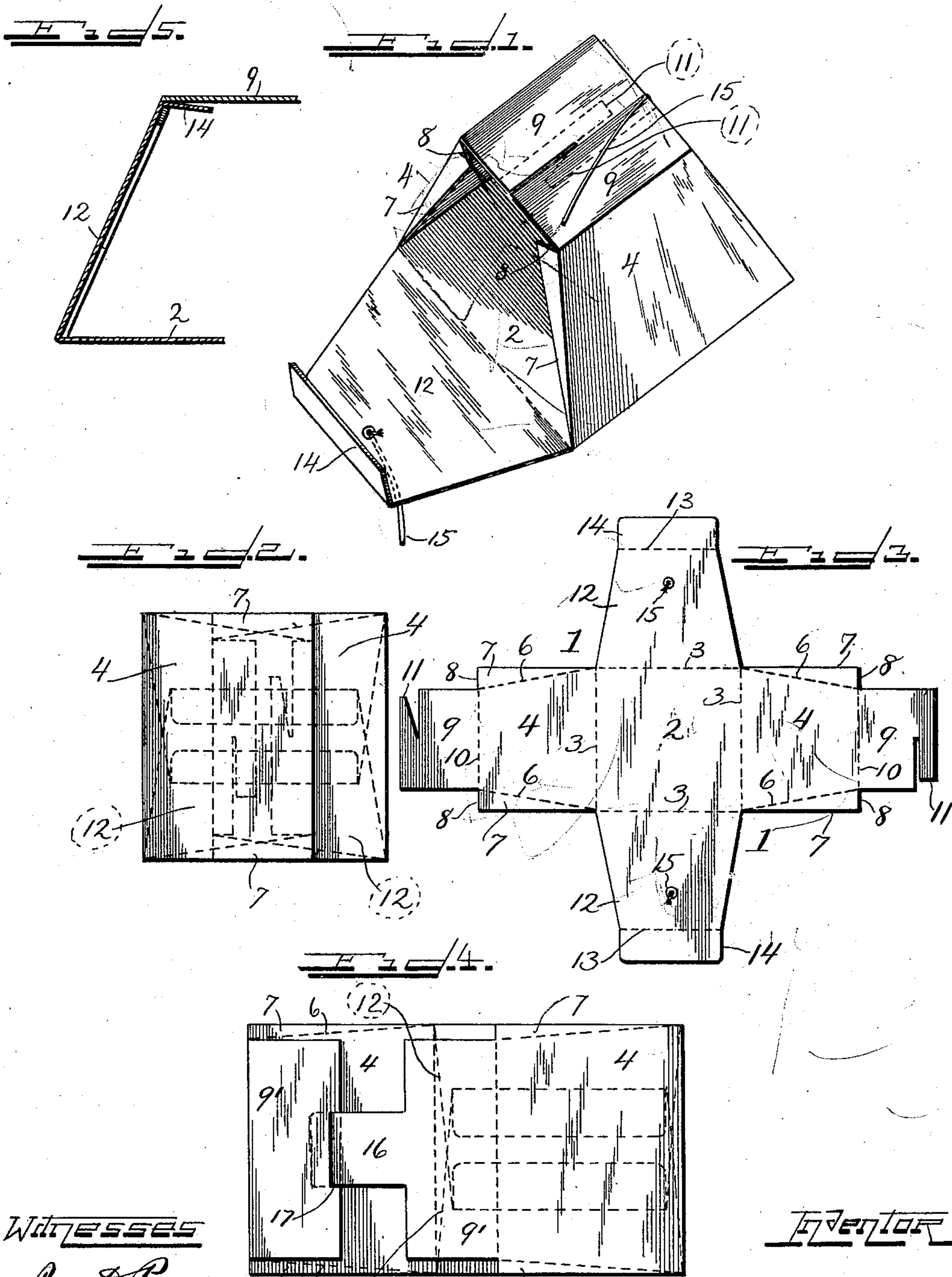
No. 688,313.

Patented Dec. 10, 1901.

C. F. KELLER.
FOLDING BOX.

(Application filed Apr. 5, 1901.)

(No Model.)



WITNESSES

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FOLDING BOX.

SPECIFICATION forming part of Letters Patent No. 688,313, dated December 10, 1901.

Application filed April 5, 1901. Serial No. 54,533. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. KELLER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Folding Box, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

My invention relates to improvements in folding boxes; and it consists in the novel combination and arrangement of parts, as will be hereinafter more particularly described and claimed.

In the drawings, Figure 1 is a perspective view of a folding box constructed according to my invention with one of the sides thereof in an open position. Fig. 2 is a plan view of the box in a folded position. Fig. 3 is plan view of the blank which forms the box. Fig. 4 is a plan view of a modification of my invention, showing the box in a folded position; and Fig. 5 is a vertical section of a portion of the box.

The object of my invention is to construct a simple, practical, and durable folding box more especially constructed for millinery purposes, the same being constructed practically of one piece of material and when folded in the manner hereinafter described to form a box is composed of a flat bottom and top, the latter being of smaller dimensions than the former, whereby the sides are arranged at an incline, forming what may be termed a "truss-framed" folding box which provides strength and simplicity, and, further, one that is more desirable in appearance.

Referring to the drawings, 1 represents the blank from which the box is made and is composed of a central rectangular portion 2, which forms the bottom for the box, the material being creased, as shown by dotted lines 3, and forming a continuation of said bottom and arranged diametrically opposite one another are two extensions 4, the latter being creased at an angle to the opposite edges of the same, as shown by dotted lines 6, producing side wings 7, said wings being right-triangular in shape, with the apex at the bottom, whereby the blank may be cut with less expense and the formation of slits, &c., at the

juncture of the bottom of the extensions 4 with the bottom 2 prevented without loss of strength. Said wings are bent at right angles to said extensions when the box is set up for use, thereby strengthening the same, the upper edges of said wings producing supporting-ledges 8, with which the tongues of the remaining extensions cooperate. Forming a continuation of the extensions 4 are tongues 9, the parts being bent on creases, (shown by dotted lines 10,) said tongues being each provided with hooks 11, located at the ends of the same and made from the material of which they form a part, whereby when said hooks are united in the manner shown in Fig. 1 two of the sides of the box are formed and also the top. The extensions 12, forming the remaining side walls for the box, are each creased adjacent to their ends, as shown by dotted lines 13, forming tongues 14, which are passed under the top previously described, and over the upper ledges 8 of the wings 7, the opposite edges of the said extensions 12 being inclined to conform to the shape or incline of the opposite side walls of the box. Secured to the extensions 12 are strings or cords 15, which are tied together in the usual manner over the top of the box after the latter is formed, whereby all of the parts are rigidly held together in respect to one another.

When it is desired to form the box, the blank 1 is unfolded in the manner shown in Fig. 3 and the hat or other article laid on the bottom 2, after which the extensions 4 are elevated and the hooks 11 united, thereby forming a bottom, two side walls, and the top. The other extensions are then elevated, forming the remaining side walls, and the tongues 9 forced under the top and over the ledges 8 of the wings 7, after which the cords 15 are tied and the article inclosed. From the foregoing description it will be seen that the top of the box thus formed is supported by the entire upper creased edges of the extensions 12, the tongues forming the terminal ends of the latter operating to strengthen said supporting creased edges, it being further observed that after the tongues are inserted between the top and upper edges of the wings

7 the latter assume an inclined position in respect to said top, as shown in Fig. 5, temporarily holding the various parts of the box in a rigid position before the strings are tied.

5 In view of these facts it will be readily understood that when folding or unfolding the box there is no requirement of the making of a difficult insertion of tongues, the securing of the extensions having the locking-tongues
10 being readily accomplished, after which it is necessary only to pass the tongues 14 between the top and the upper edge 8 of the wings 7, which can be readily done without the requirement of the manipulation of the tongues,
15 as is the case where a paper tongue is to be inserted within a slit. Furthermore, as the tongues 14 are not adapted to have any interlocking connection, being, in fact, out of contact with each other when in position,
20 this placing of the tongues in position can be quickly accomplished, and owing to the strings being attached to the extensions 12 instead of to the tongues 14 the box is held in rigid position without the requirement
25 of an interlocking connection between the tongues 14.

In Fig. 4 I have shown a modification of my invention, the only difference in construction being the formation of the tongues 9', which
30 form the top of the box, a tongue 16 being employed of sufficient length to remain in a slot 17, formed in the opposite tongue 9, whereby the folding of the box when not in use is somewhat different and the tongues 9
35 always connected. By elevating the extensions 4 and forcing the same toward one another the bottom, two side walls, and top are formed in practically one operation.

40 Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A blank for a folding box having a central portion adapted to form a bottom, extensions formed on each of the four sides of said
45 bottom portion, two of said extensions having sides in alinement with the crease of the bottom, the remaining extensions having inclined sides, non-adjointing extensions having the same configuration, portions of the
50 extensions having the alined sides being adapted to be folded to form wings, tongues formed on said winged extensions and provided with means for securing them together to form a top, and tongues formed on the remaining extensions, said latter tongues being
55 of a combined length less than the distance across the top of the box, substantially as described.

2. A folding box formed of a single piece
60 of material, having a bottom, inclined sides, a top formed by the opposite ends of two of said sides, the ends of the remaining sides being insertible below said top out of contact with each other, said ends being supported
65 against collapsing inwardly by wings right-triangular in shape with the apex at the bottom of the box, and strings attached to the sides

having the non-contacting ends or tongues and adapted to be tied over the said top.

3. A folding box comprising a bottom, extensions forming a continuation of the same
70 and arranged at an incline, forming side walls, wings right-triangular in shape with the apex at the bottom of the box, located on the opposite sides of two of said extensions, the upper
75 edges of which form supporting-ledges, tongues forming the ends of the last-named extensions, producing a top, means for securing said tongues together, tongues forming the ends of the remaining extensions, and
80 adapted to be located under the top out of contact with each other and supported by the ledges of the wings, and strings attached to last-named extensions, and adapted to be tied
85 together over said box, whereby the top of the box is of smaller dimensions than the bottom, as and for the purpose described.

4. A folding box comprising a bottom, extensions forming a continuation of the same
90 forming side walls, wings right-triangular in shape with apex at the bottom of the box, located on the opposite sides of two of said extensions, the upper edges of which form supporting-ledges, tongues forming the ends of
95 the last-named extensions producing a complete closed top, means for securing said tongues together, tongues forming the ends of the remaining extensions and adapted to be located under the top thus formed and co-operate with the upper supporting-ledges of
100 the wings, whereby the creased edges formed by the last-named tongues will support the top, and strings attached to the latter extension and adapted to be passed over said creased edges and tied together over the top,
105 substantially as described.

5. A folding box comprising a bottom, extensions forming a continuation of the same
110 forming side walls, wings right-triangular in shape with the apex at the bottom of the box, located on the opposite sides of two of said extensions, the upper edges of which form supporting-ledges, tongues forming the ends of
115 the last-named extensions, said tongues being normally held in interlocking relation whether the box be folded or unfolded, said tongues forming a complete top, tongues forming the ends of the remaining extensions and adapted to be located under the top thus
120 formed and co-operate with the upper supporting-ledges of the wings, whereby the creased edges formed by the last-named tongues will support the top, and strings attached to the latter extension and adapted to be passed over
125 said creased edges and tied together over the top, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES F. KELLER.

Witnesses:

LOUIS P. KELLER,
R. S. NORMAN.