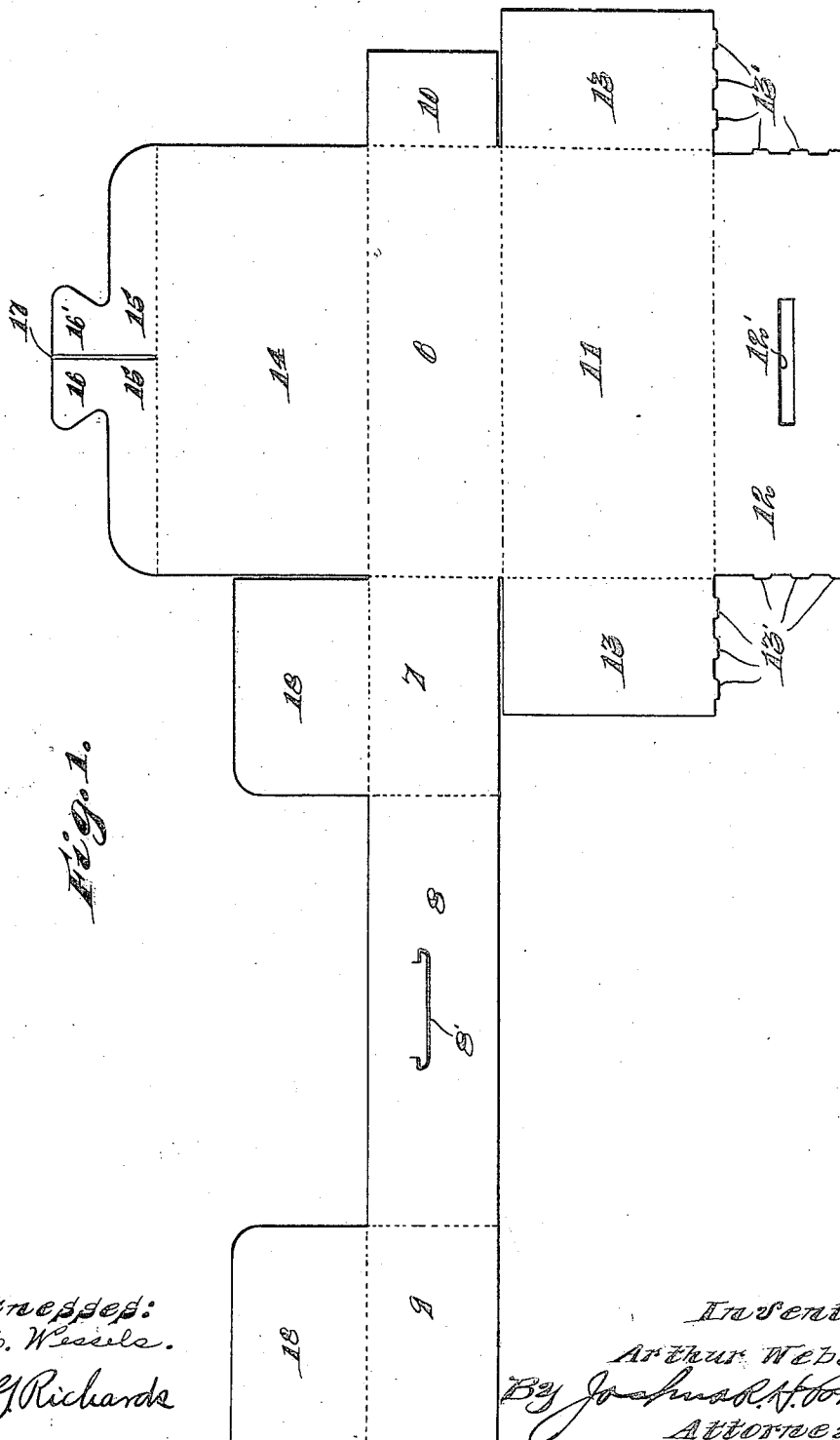


Jan. 23, 1923.

1,442,837

A. WEBER.
FOLDING BOX.
FILED MAR. 5, 1919.

2 SHEETS-SHEET 1



Witnessed:
C. C. Wessels.
B. G. Richards

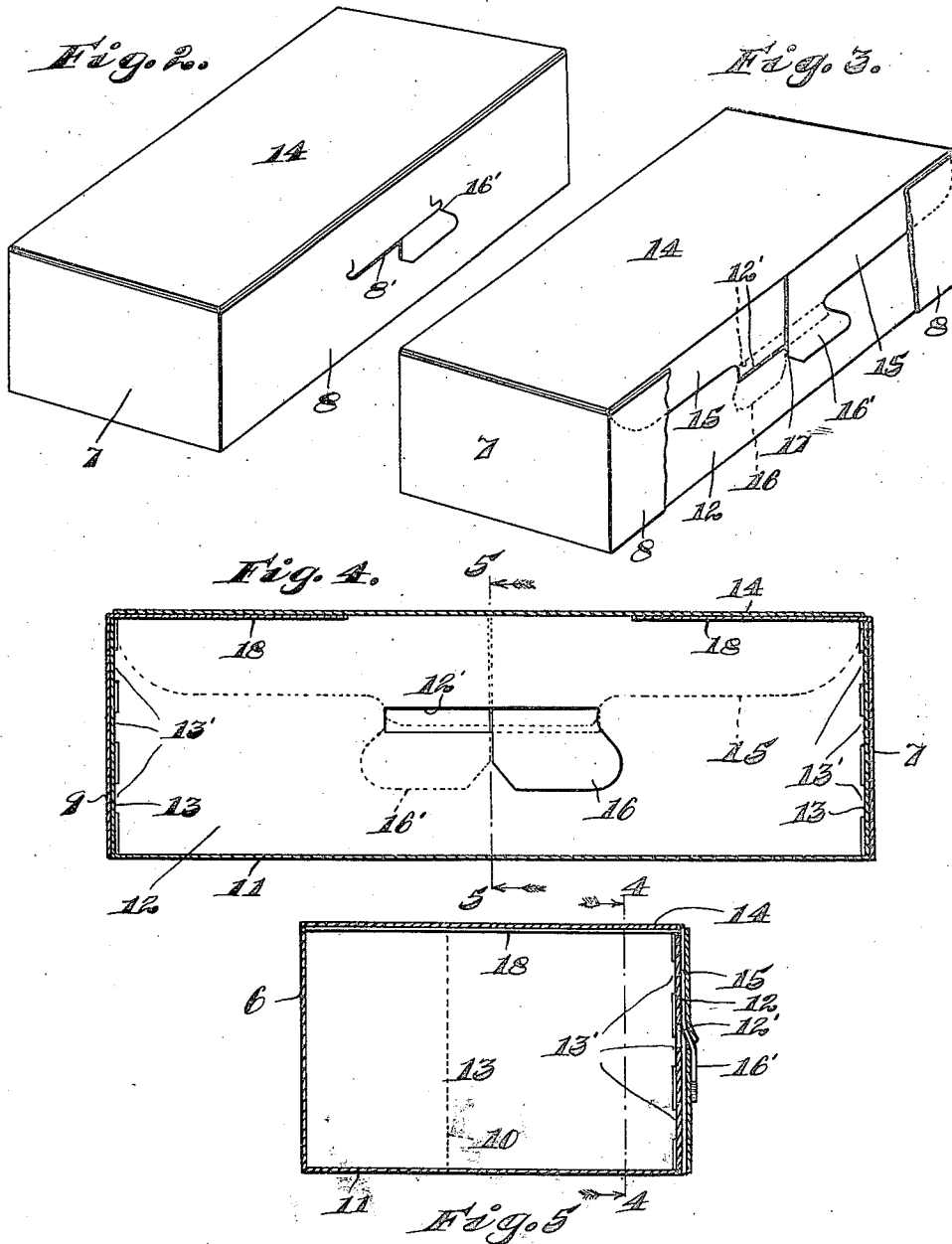
Inventor:
Arthur Weber,
By Joshua H. H. H.
Attorney.

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2 SHEETS-SHEET 2



Witnesses:

C. E. Wessels

B. G. Richards

Inventor:

Arthur Weber,

By Joshua H. Toms

Attorney.

UNITED STATES PATENT OFFICE.

ARTHUR WEBER, OF CHICAGO, ILLINOIS, ASSIGNOR TO ACKERMAN-QUIGLEY
PRINTING COMPANY, OF CHICAGO, ILLINOIS.

FOLDING BOX.

Application filed March 5, 1919. Serial No. 280,771.

To all whom it may concern:

Be it known that I, ARTHUR WEBER, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Folding Boxes, of which the following is a specification.

My invention relates to improvements in folding boxes and has for its object the provision of an improved construction of this character which may be readily folded into flat condition or distended into box form and securely locked in said box form.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Fig. 1, is a plan view of the blank from which the box is made,

Fig. 2, a perspective view of the completed box shown in distended and closed position,

Fig. 3, a view similar to Fig. 2, with the front portion of the box broken away,

Fig. 4, a longitudinal section of the box taken on line 4—4 of Fig. 5, and

Fig. 5, a transverse section taken on line 5—5 of Fig. 4.

The preferred form of construction, as illustrated in the drawings, comprises a suitable blank formed of box board material or the like, and comprising portions 6, 7 and 8 adapted to form the front and rear sides and ends of a tubular box body open at both top and bottom, a flap 10 being provided at the edge of portion 6 for securing the portion 9 in place to form said body, as will be readily understood. The bottom portion 11 is formed integrally with the bottom edge of the side wall 6 and is provided at its free edge with a flap 12 insertable within the box body. Side flaps 13 are provided at the ends of the bottom portion 11 and are also insertable within the box body. The adjoining edges of flaps 12 and 13 are provided with teeth or serrations 13' adapted to interlock with each other when said flaps are folded and inserted within the box body, forming a connection between said flaps adapted to stiffen the box construction and tending to prevent with-

drawal of the bottom member 11. A top member 14 is formed integrally with the top edge of the side wall 6, and is provided at its free edge with a flap 15 having a tongue thereon split into portions 16 and 16' by a central slit or cut 17. The end walls 7 and 9 are provided with top flaps 18 adapted to fold inwardly over the open top of the box body under the cover 14. Slits 8' and 12' are provided respectively in the front wall 8 and the flap 12 to receive the portions 16 and 16' of said split tongue, said slits being arranged to register with each other when the box is arranged in distended form to receive said tongue portions. The box is prepared for use simply by folding the parts on the creased line between the walls 7 and 8 and attaching the flap 10 to the wall 9, when the box is ready for shipment. In use, the body of the box is first distended and the bottom 11 folded inwardly into closing position with the flaps 12 and 13 inserted within the body of the box and the teeth 13' interlocked with each other. Then after the proposed contents of the box have been placed therein the flaps 18 are folded inwardly thereover and a cover member 14 folded over said flaps 18, the tongue portions 16 and 16' being inserted within the box body outside of the flap 12 and inside of the flap 8, one of said tongue portions being projected outwardly through the slit 8' and the other being projected inwardly through the slit 12', as shown, said tongue portions interlocking with said slits to lock the box securely in closed condition. The box thus formed is very strong and rigid in construction, and is very securely locked against accidental opening thereof.

The terms top, bottom, sides, etc., are used in a relative sense, with reference to the position in which the box is illustrated, but obviously are interchangeable terms. For instance, if the box is turned over, the part which I have called the bottom will become the top, etc., so that it should be understood that the terms used refer to the box when in the position illustrated in the drawings.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the inven-

tion. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

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

1. A folding box comprising a box body; a bottom for said body having flaps at the ends and sides thereof, insertable therein, the adjoining edges of the end flaps and one of said side flaps being provided with interlocking teeth; a top for said body having a flap insertable in said body; and a tongue formed integral with said top flap adapted when said body is distended to be inserted through a slit formed in one of said side flaps for securing the top in closed position, substantially as described.

2. A folding box comprising a box body, having side and end flaps; a continuous foldable strip formed integral with one of said side flaps adapted to be folded over the other of said side flaps when said box is distended; a slit formed in said strip and the adjacent side flap; a cover for said box formed integral with one of said side flaps; and a slitted tongue formed integral with said cover, said tongue being inserted between said strip and the said adjacent side flap, one portion of said tongue being inserted outwardly through the slit formed in said strip and the other portion of said tongue being inserted inwardly through the slit formed in the adjacent side flap, substantially as described.

3. A folding box comprising a box body, having side and end flaps; a continuous foldable strip formed integral with one of said side flaps adapted to be folded over the other of said side flaps when said box is distended; a slit formed in said strip and the adjacent side flap; a cover for said box formed integral with one of the said side flaps; a slitted tongue formed integral with said cover, said tongue being inserted between said strip and the said adjacent side flap, one portion of said tongue being inserted outwardly through the slit formed in said strip and the other portion of said tongue being inserted inwardly through the slit formed in the adjacent side flap, and interlocking means formed in one of the side edges of each of said end flaps and one of said side flaps, substantially as described.

4. A folding box comprising a box body normally open at top and bottom and having the four sides thereof foldable into flat condition; a bottom for said box body formed integrally therewith and having flaps on its side opposite its juncture with one of said sides and at the ends thereof insertable in said box body, the adjoining edges of said flaps having interlocking teeth; and a top for said body formed integrally therewith and having a split tongue on its side opposite its juncture with said body, there being slits in the corresponding body side and bottom flap adapted to receive the portions of said tongue, substantially as described.

5. A folding box comprising a box body consisting of four consecutive side walls permanently secured together in box form capable of folding at opposite corners and collapsing into folded condition; a bottom member on the lower edge of one of said side walls provided with a flap at its free edge adapted to enter said box body when distended; a top member on the upper edge of said one side wall provided with a flap at its free edge adapted to enter said box body when distended; and a split tongue on one of said flaps, said bottom wall flap and the front wall of said box body being provided with slits adapted and arranged to receive the portions of said tongue, substantially as described.

6. A folding box comprising a box body consisting of four consecutive side walls permanently secured together in box form capable of folding at opposite corners and collapsing into folded condition; a bottom member on the lower edge of one of said side walls provided with a flap at its free edge adapted to enter said box body when distended; a top member on the upper edge of said one side wall provided with a tongue at its free edge adapted to enter registering slits formed in said box body and the flap of said bottom member when distended; and interlocking means on said flaps, substantially as described.

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

ARTHUR WEBER.

Witnesses:

JOSHUA R. H. POTTS,
B. G. RICHARDS.