

No. 762,760.

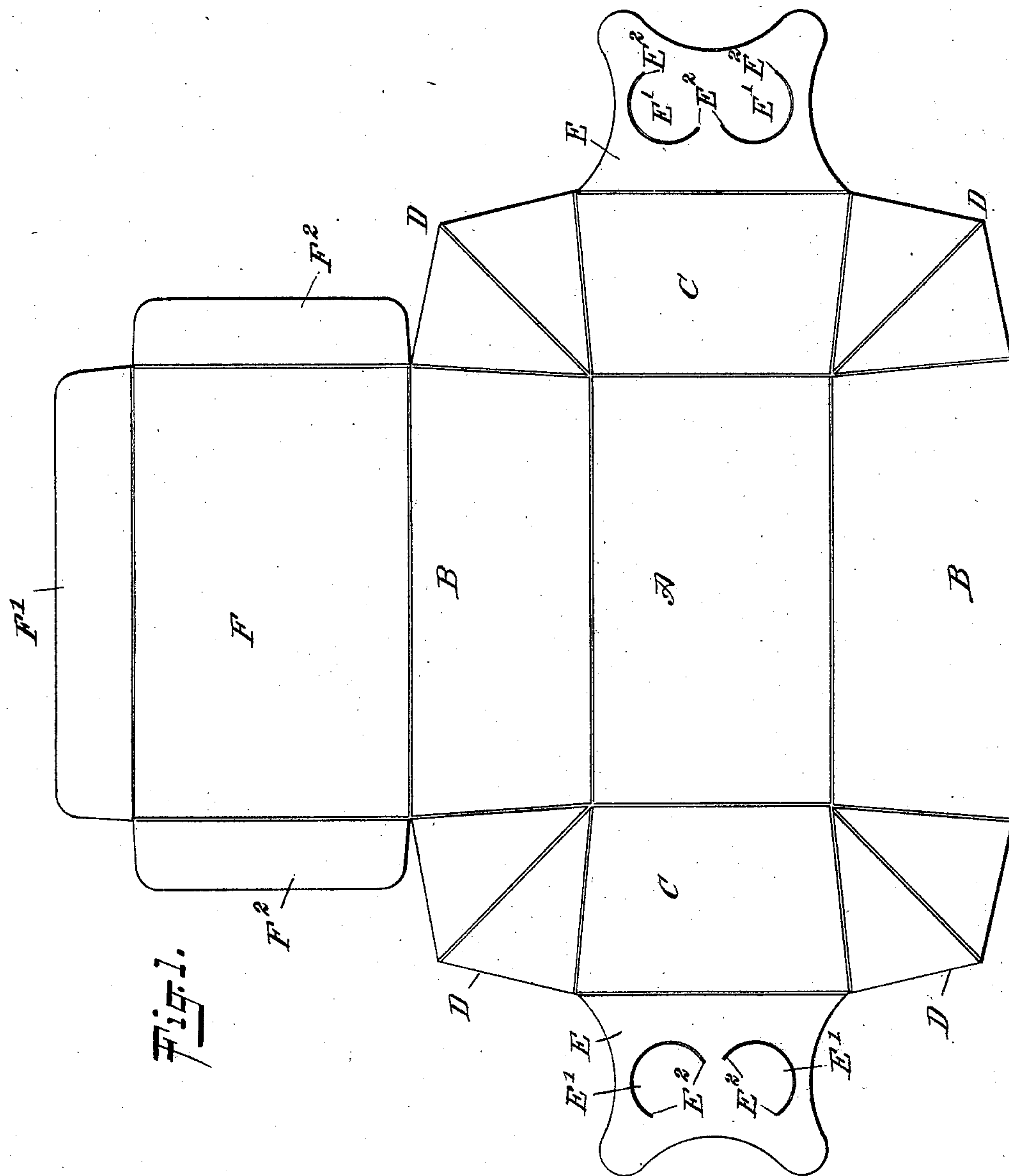
PATENTED JUNE 14, 1904.

A. L. REYNOLDS.
FOLDING BOX.

APPLICATION FILED JAN. 24, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES:

William P. Goebel.
Thos. Hoster.

INVENTOR

Alvah L. Reynolds

BY *Mumford*

ATTORNEYS.

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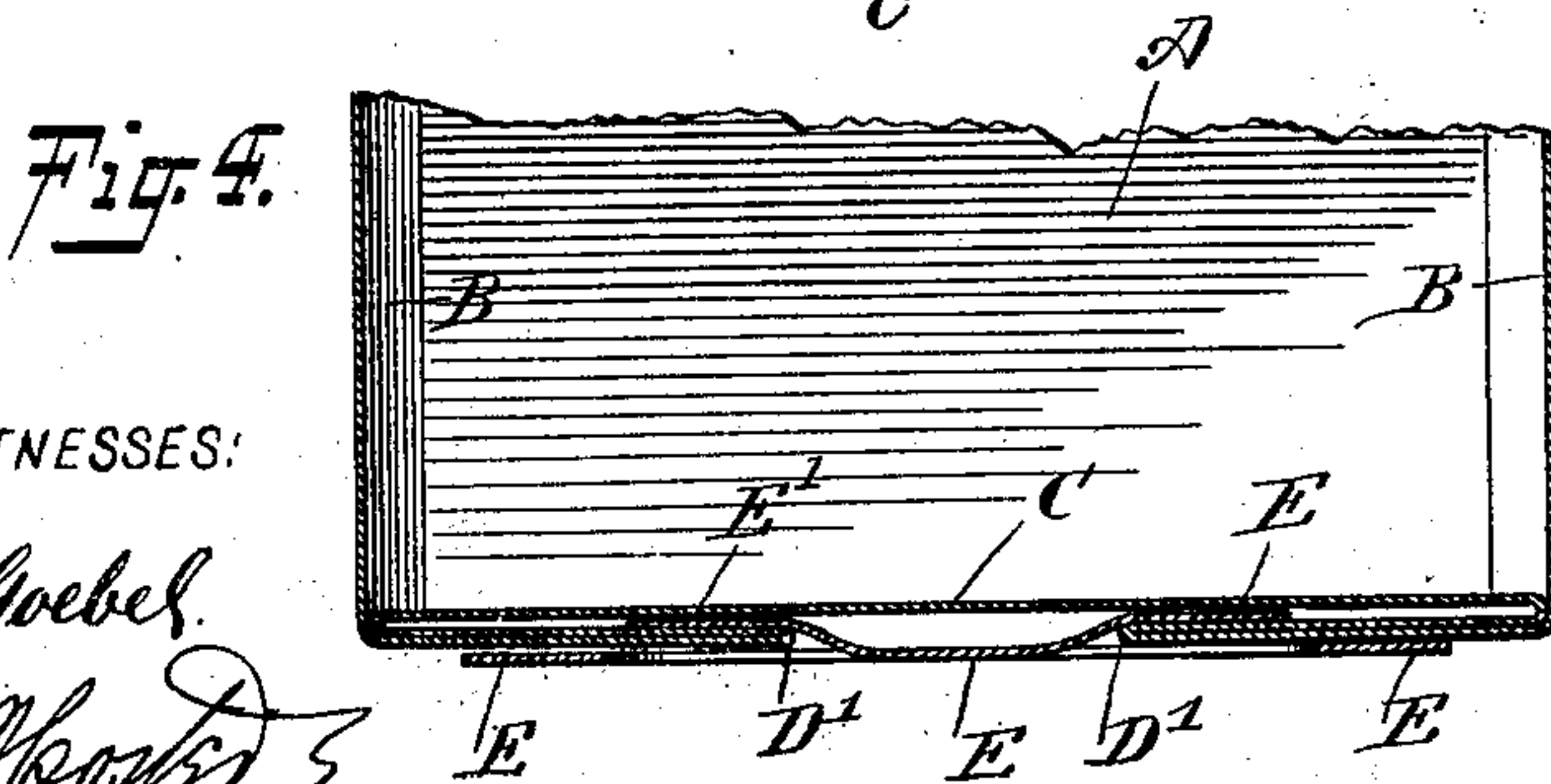
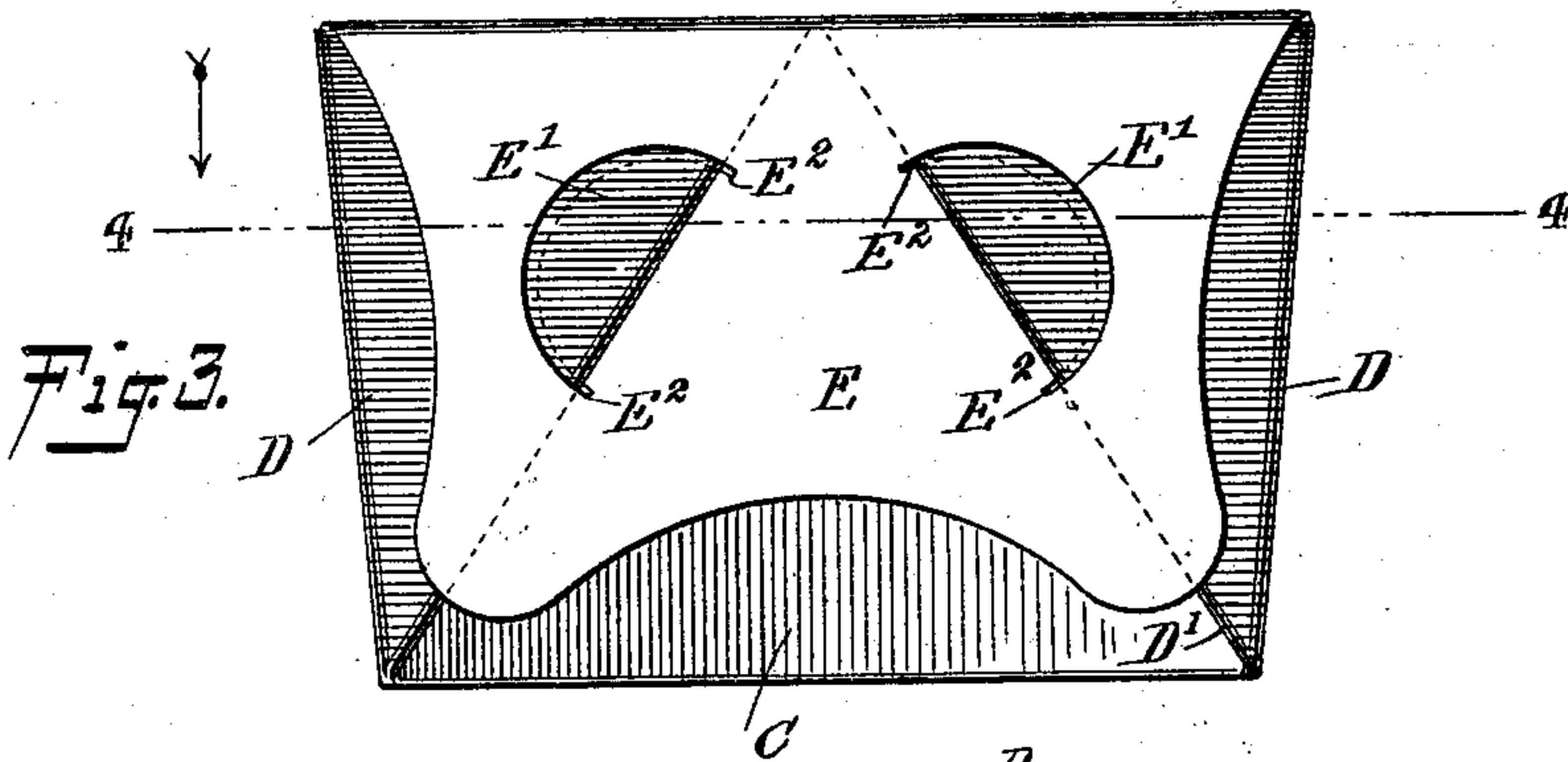
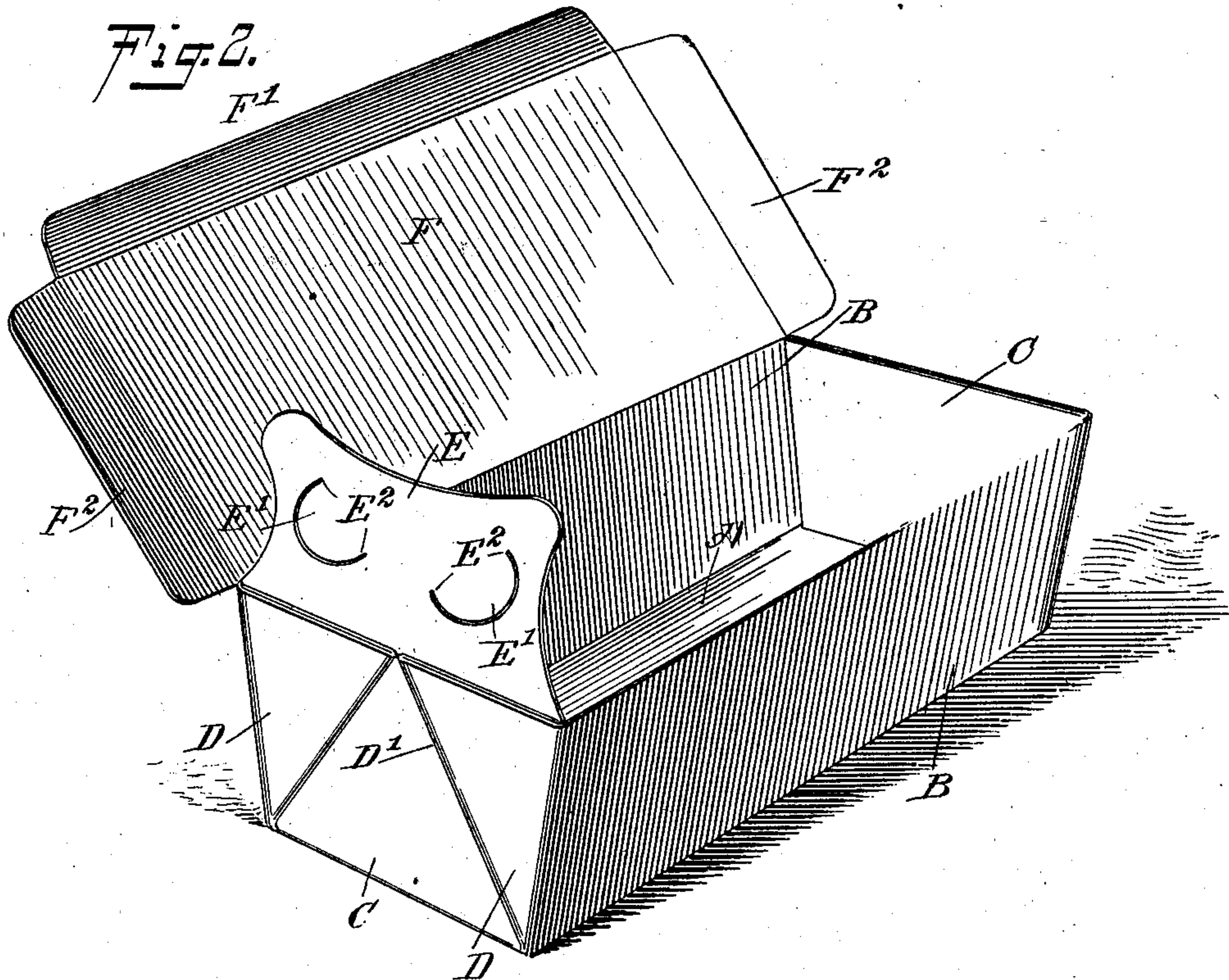
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William P. Goebel.

Henry H. Hester.

INVENTOR

Alvah L. Reynolds

BY

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UNITED STATES PATENT OFFICE.

ALVAH LEWIS REYNOLDS, OF MADISON, NEW JERSEY.

FOLDING BOX.

SPECIFICATION forming part of Letters Patent No. 762,760, dated June 14, 1904.

Application filed January 24, 1903. Serial No. 140,370. (No model.)

To all whom it may concern:

Be it known that I, ALVAH LEWIS REYNOLDS, a citizen of the United States, and a resident of Madison, in the county of Morris and State of New Jersey, have invented a new and Improved Folding Box, of which the following is a full, clear, and exact description.

The invention relates to collapsible packing-receptacles; and its object is to provide a new and improved folding box arranged to permit packing and shipping it flat or collapsed, to allow convenient and quick setting up of the box for immediate use, and to securely lock the parts in position and prevent accidental unlocking, and at the same time presenting unobstructed inner faces of the top, bottom, sides, and ends of the box.

The invention consists of novel features and parts and combination of the same, as will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a face view of the blank for forming the box. Fig. 2 is a perspective view of the improvement, showing the cover in an open position and one end unlocked. Fig. 3 is an end elevation of the improvement, and Fig. 4 is a sectional plan view of the same on the line 4 4 of Fig. 3.

The improved folding box is made from a single piece of paper or other suitable material, and consists, essentially, of a bottom A, from which extends sides B and ends C, connected at their sides with the sides B by doubled-up connecting-pieces D, folded against the outer face of the ends C, as plainly shown in Figs. 2, 3, and 4, the said connecting-pieces being arranged to be non-overlapping at each end of the box, and each of the connecting-pieces, when doubled up, is approximately of triangular shape, as will be readily understood by reference to Figs. 2 and 3. From the top of each end C extends a locking-flap E, folded downwardly and outwardly onto

the doubled-up connecting-pieces D, and each of the said locking-flaps E is provided with interior thumb-pieces or tongues E', struck up from the material of the locking-flap and folded under the corresponding doubled-up connecting-piece D at the respective end C of the box. Said thumb-pieces or tongues E' are formed by slitting the material of each of the locking-flaps E a considerable distance within the edges thereof and on such lines as to present the terminals E² of the said inner thumb-pieces E' in alinement with the folded inner edges D' of the connecting-pieces D, so that the thumb-pieces E' stand at right angles to said edges D', and thus form a very secure lock to hold the several parts of the box in position. In order to more clearly indicate the construction and organization of the thumb-pieces or tongues E', it may be said that the ends or terminals of the slit by which each tongue is formed are so located relatively to each other as that when said tongue is turned under or beneath its particular folded edge D' an imaginary line intersecting the said ends or terminals will be parallel with the said edge, and inasmuch as none of the material of either of the locking-flaps is cut out or removed it is apparent that a very secure fastening is thus derived.

From one of the sides B extends a cover F, having a side flap F' and end flaps F², adapted to be folded against the inner faces of the box when the cover is closed and after the box is filled with the desired contents.

From the foregoing it will be seen that comparatively little material is required for forming the complete box, and the box can be readily set up from the blank, so that the inner faces of the top, bottom, sides, and ends are completely unobstructed and the several parts are securely locked together by the use of the thumb-pieces E' on the locking-flaps E. It is further evident that as the edges D' of the doubled-up connecting-pieces D extend upwardly and inwardly from the corners of the set-up box-body, the interior thumb-pieces E' engaging the inner faces of the doubled-up connecting-pieces in the manner described are

held against upward and outward movement, and consequently the box cannot open accidentally.

Having thus described my invention, I claim
5 as new and desire to secure by Letters Patent—

1. A folding box having a body formed integrally and comprising a bottom, sides and ends extending upwardly from the sides and ends of said bottom, doubled-up connecting-
10 pieces integrally connecting the said ends with the said sides, and folded against the outer faces of the said ends, and a locking-flap extending integrally from the top of each end and folding outward and downward upon the
15 outside of the doubled-up connecting-pieces at each end, the said locking-flap having integral interior thumb-pieces or tongues struck up from the flap considerably within the edges thereof, and adapted to be passed under the
20 said doubled-up connecting-pieces at each end, as set forth.

2. A folding box having a body formed integrally and comprising a bottom, sides and ends extending upwardly from the sides and
25 ends of the said bottom, doubled-up connect-

ing-pieces integrally connecting the said ends with the said sides and folded against the outer faces of the said ends, and a locking-flap extending integrally from the top of each end and folding outward and downward upon the
30 outside of the doubled-up connecting-pieces at each end, the said locking-flap having integral interior thumb-pieces or tongues, adapted to be passed under the said doubled-up connecting-pieces at each end, each interior thumb-
35 piece or tongue being formed by a slit cut in the body of the flap a considerable distance within the edges of the latter, and having the ends or terminals thereof intersected by an imaginary line which is parallel with the fold-
40 ed edge of the flange under which the thumb-piece is turned.

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

ALVAH LEWIS REYNOLDS.

Witnesses:

L. E. BUCKBEE,

WINFIELD S. BURNS.