

No. 729,167.

PATENTED MAY 26, 1903.

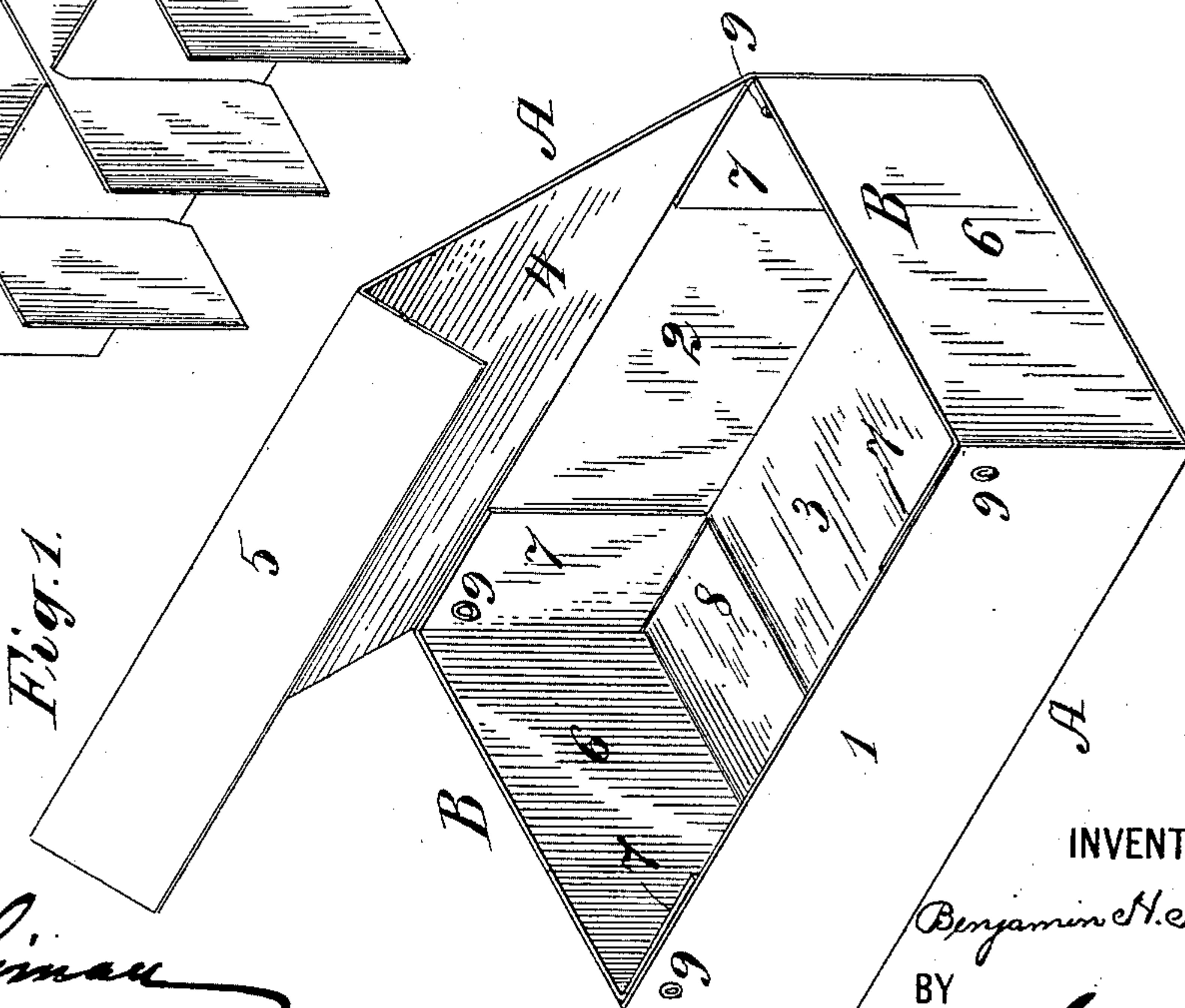
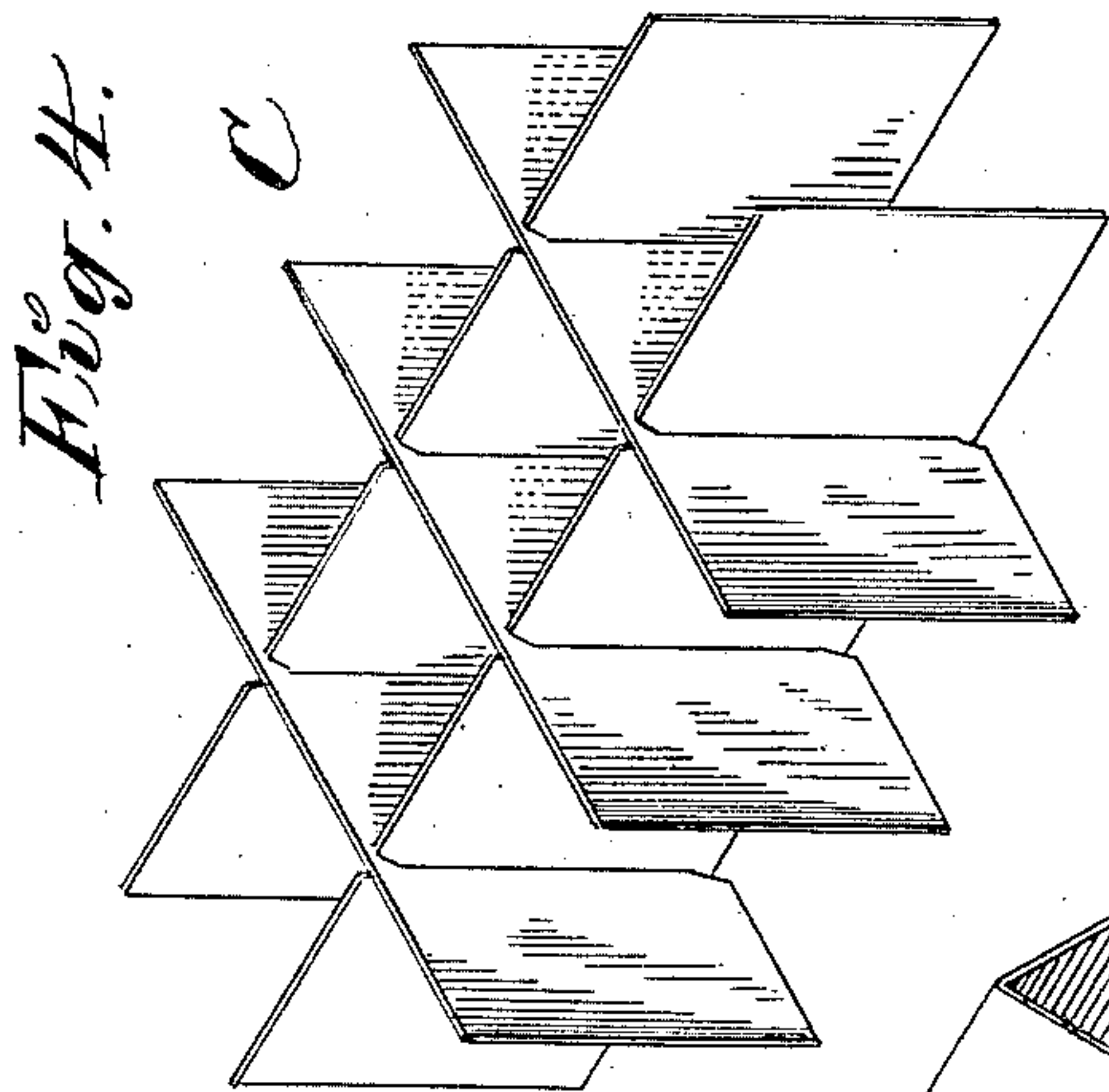
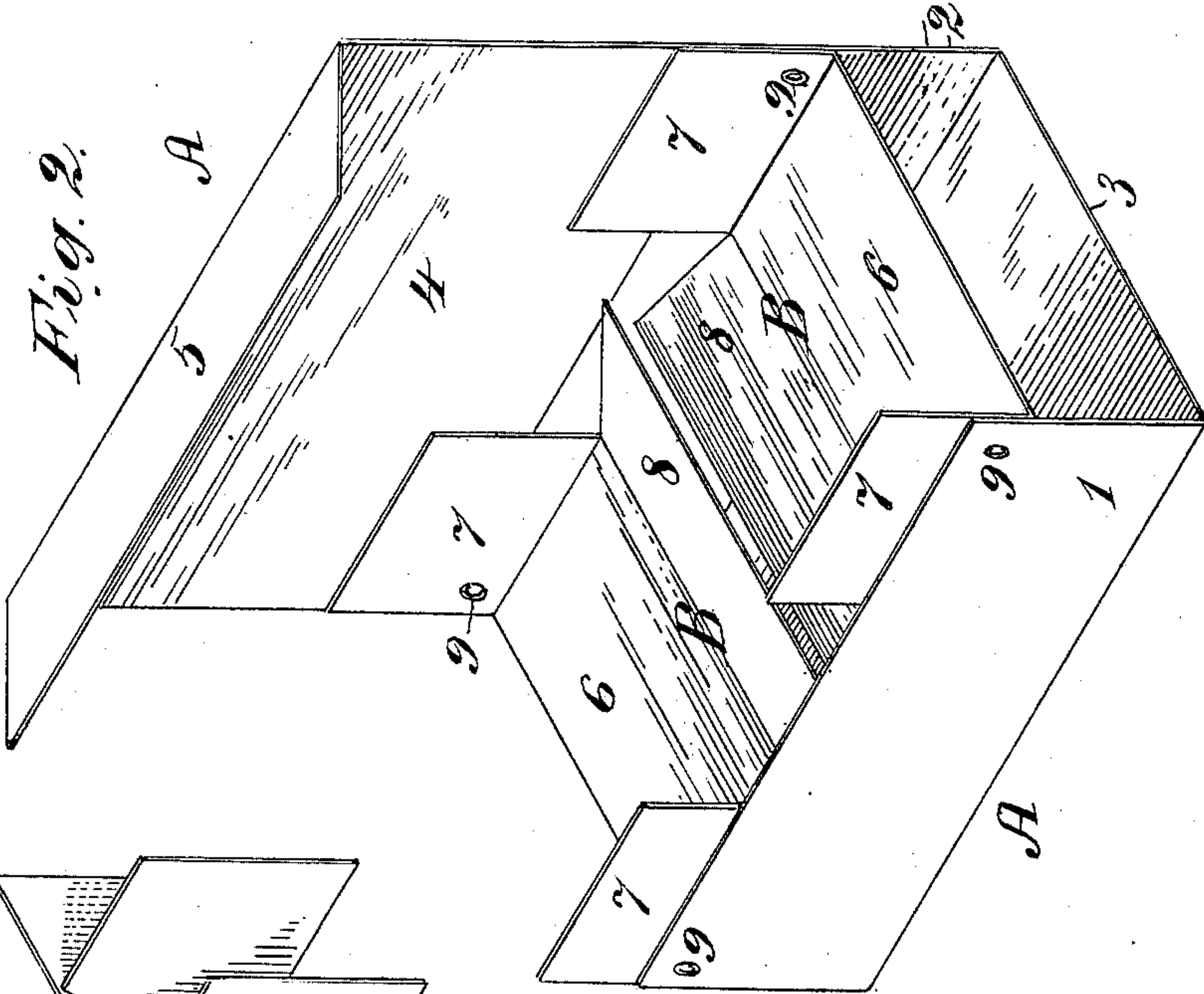
B. H. HENDERSON.

PAPER BOX.

APPLICATION FILED SEPT. 6, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES:

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INVENTOR

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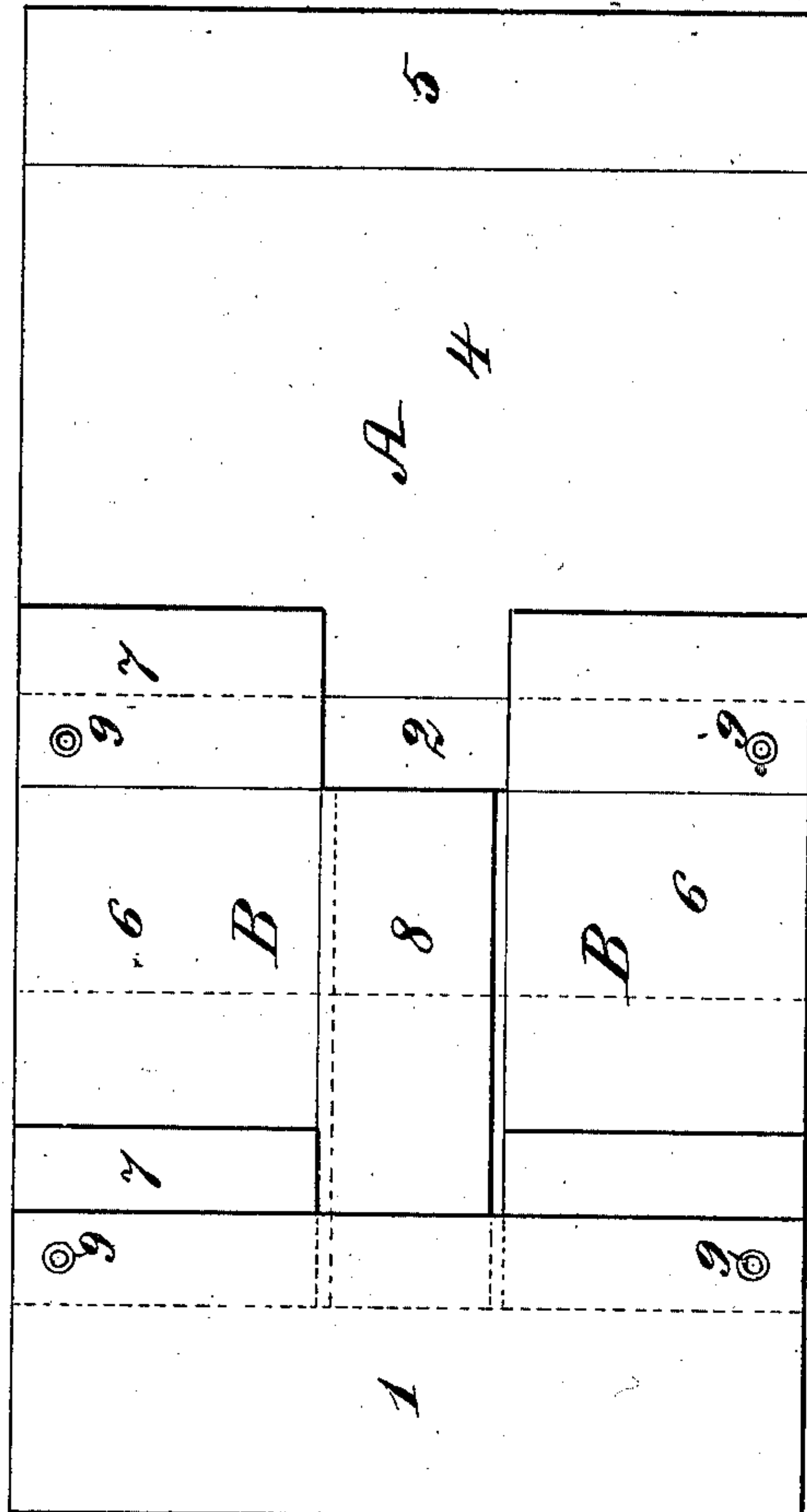
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NO MODEL.

2 SHEETS—SHEET 2.

Fig. 3.



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BENJAMIN H. HENDERSON, OF SOMERVILLE, MASSACHUSETTS, ASSIGNOR
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PAPER BOX.

SPECIFICATION forming part of Letters Patent No. 729,167, dated May 26, 1903.

Application filed September 6, 1902. Serial No. 122,323. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN H. HENDERSON, a citizen of the United States, residing at Somerville, Middlesex county, Massachusetts, have invented certain new and useful Improvements in Paper Boxes, of which the following is a specification.

This invention relates to the class of paper boxes which are adapted to be folded flat for convenience of packing and transportation. These are commonly called "knockdown" boxes.

The object of the present invention is to provide a box of this character made, essentially, from three pieces pivotally connected together by means of eyelets or the like and adapted to be flattened for packing or set up to form a firm and rigid rectangular box.

In the accompanying drawings, which serve to illustrate an embodiment of the invention, Figure 1 is a view of the box set up, but with the cover open. Fig. 2 is a similar view showing the end pieces of the box turned about their pivots preliminary to flattening. Fig. 3 shows the box flattened for packing. Fig. 4 shows an ordinary folding interlocked partition such as used in egg-boxes.

The box is composed of three major parts A B B. The part A is a rectangular sheet creased to form the front side 1, the rear side 2, the bottom 3, the cover 4, and a tuck 5 on the front edge of the cover. The two parts B are alike, and each comprises a box end 6, two pivoting-flaps 7 on the box end, and a bottom flap 8. The parts B B are each pivotally secured to the part A by some suitable means. As herein shown, the pivoting or hinging device is an ordinary eyelet 9, set in the box side and in the pivoting-flap on the box end, so that the parts B may be turned about the eyelets as pivoting or hinging axes, as seen in Fig. 2. It will be noted by inspection of the drawings that each box end 6 has two flaps 7, which are applied to the inner faces of the respective box sides 1 and 2, and that the eyelets 9 are alined and unite pivotally the said flaps with the respective adjacent sides. Preferably the eyelets will be set near the corners of the sides.

Fig. 3 shows the box flattened for packing and shipment. To set it up, it is first folded until its parts assume the position seen in Fig. 2. Then the parts B are turned to the position seen in Fig. 1 or until the ends 6 are perpendicular to the bottom, and the flaps 8 are applied flat on the bottom.

Fig. 4 shows a device C, commonly used in an egg-box, and which may be used in the box described. This device forms, however, no essential part of the present invention. The box may be, of course, employed for any purpose desired and may be made from any suitable kind of box material.

The essentially novel characteristic of the box is the pivoting of the ends so that they may be turned about the respective pivotal axis until they are parallel with the bottom of the box, thus allowing the structure to be folded flat.

By the terms "ends" and "sides" as herein used I have only meant to characterize the shorter sides of the box, shown in the drawings as ends. It is not a matter of any consequence, so far as my invention is concerned, whether the sides 1 and 2 are shorter or longer than the ends 6.

Having thus described my invention, I claim—

1. A folding or knockdown box consisting of three major parts pivotally connected together, one of said parts being a rectangular sheet comprising the two sides, the bottom, and the top of the box, and the other two parts being alike and comprising each an end of the box, and two hinging or pivoting flaps and a bottom flap, thereon, the said pivoting-flaps being applied to the faces of the respective sides of the box, and means for pivotally securing said flaps to the respective sides of the box near the upper and outer corners of the box sides.

2. A folding or knockdown box comprising the rectangular sheet A, creased to form the bottom, sides, cover and tuck on the cover, the two end parts B, each comprising an end, two pivoting-flaps 7 on the said end, and the bottom flap 8 on said end, and eyelets 9 pivotally connecting the flaps 7 face to face

with the respective box sides, whereby the box ends may be turned to a position parallel with the box-bottom.

3. A folding or knockdown box in three
5 connected parts, namely, a rectangular sheet with parallel creases, said sheet forming the bottom sides and cover, and two like end parts, each comprising an end of the box, two pivoting-flaps on the respective sides of the
10 box end, and a bottom flap, the said pivoting-flaps being turned in and applied to the inner faces of the respective box sides and pivotally connected thereto near the outer and

upper corner of the latter, whereby said end parts may be turned about said pivots until 15 the outer face of the box end is parallel with the bottom of the box, for folding the box, substantially as set forth.

In witness whereof I have hereunto signed my name, this 2d day of September, 1902, in 20 the presence of two subscribing witnesses.

BENJAMIN H. HENDERSON.

Witnesses:

GEORGE H. ELWELL,
WM. WATT.