

944,614.

Fig. 1 is an isometric view of a mechanical assembly. It shows a main rectangular frame (1) with a central opening. A smaller rectangular component (4) is positioned within this opening. Various parts are labeled with numbers: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16. Dashed lines indicate internal structures or hidden parts.

Fig. 2 is a plan view of the same assembly. It shows the top-down layout of the components. The central component (4) is clearly visible within the main frame (1). The labels 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 are used to identify the same parts as in Fig. 1. Dashed lines are used to show the internal layout and alignment of the components.

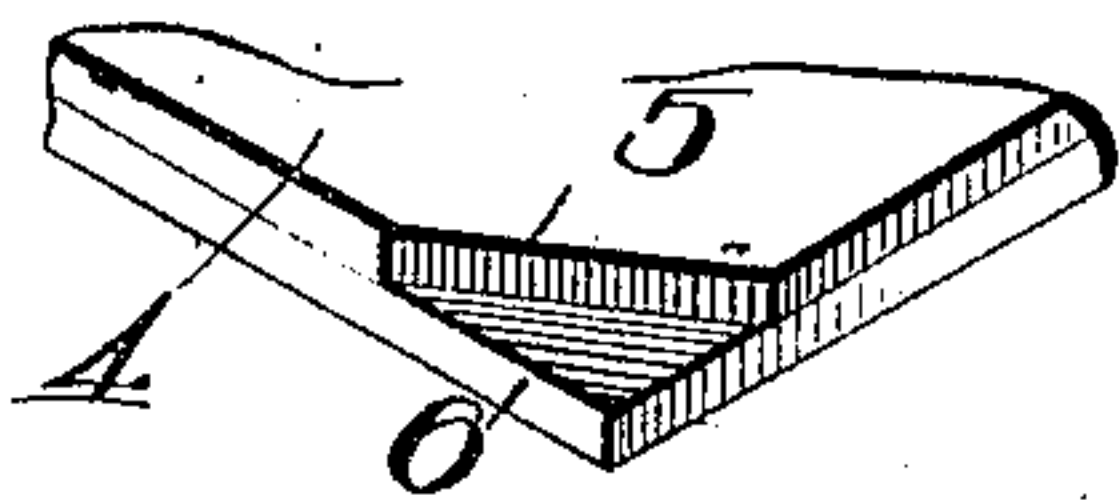


Fig. 4

Witnesses  
Jas. E. Dodge, Fig. 3.  
Stella Whitford

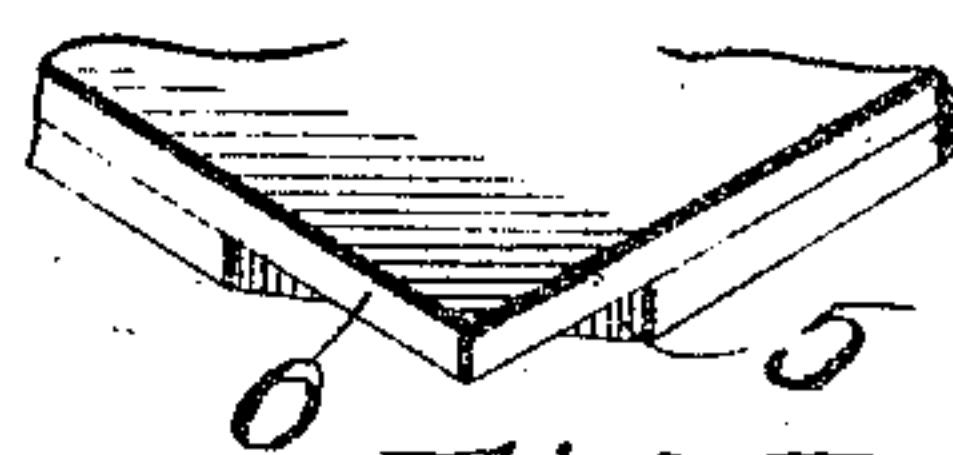
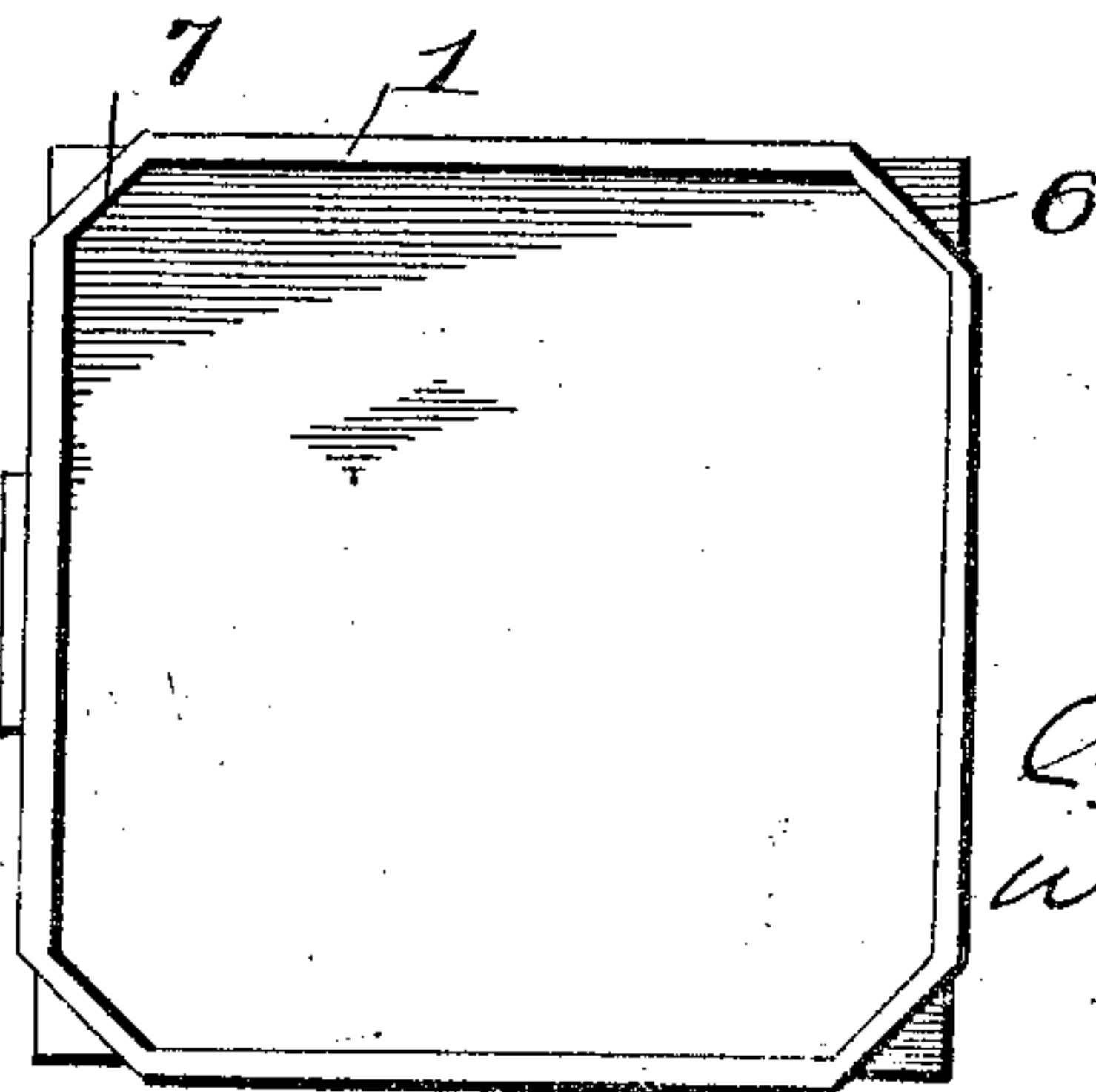


Fig. 5.

Inventor  
Q. F. Jenkins by  
Wilkinson Fisher  
Wilkinson  
Attorney



# UNITED STATES PATENT OFFICE.

CHARLES FRANCIS JENKINS, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR  
TO SINGLE SERVICE PACKAGE COMPANY, A CORPORATION OF NEW JERSEY.

## KNOCKDOWN BOX.

944,614.

Specification of Letters Patent.

Patented Dec. 28, 1909.

Application filed May 4, 1909. Serial No. 493,910.

*To all whom it may concern:*

Be it known that I, CHARLES FRANCIS JENKINS, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Knockdown Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to knock down boxes of sheet material, and has for its object the production of a box of this nature which will be cheap to manufacture, simple in construction and rigid and stiff in transportation.

To these ends the invention consists in the novel details of construction and combinations of parts more fully hereinafter described and particularly pointed out in the claims.

Referring to the accompanying drawings forming a part of this specification:—Figure 1 represents a perspective view of the box with the side walls partially unfolded preparatory to knocking down for shipping; Fig. 2 represents a plan view of the parts knocked down and ready for shipment; Fig. 3 represents an end view of the box complete; Fig. 4 is a detail fragmentary view of a corner of one of the end sections, and Fig. 5 a like view showing the other side of said corner.

1 represents the side walls of the box which may be of paper or any other suitable sheet material; 2 represents lines of weakness or lines of scoring with which said walls 1 are provided; 3 represents slots or holes preferably elongated cut through said walls, and 4 represents end sections preferably made of two or more thicknesses of sheet material, as shown.

The end sections 4 are partially cut away in their corners to form the shoulders 5, and leaving thinner projecting portions 6, as shown. These projecting portions 6 are about the same thickness, as are the widths of the holes 3, and they are adapted to extend through said holes, as best shown in Figs. 1 and 3, so that the narrow strip like portions 7 of the walls 1 abut against the shoulders 5 and thereby form a stiff bracing for the box. The end sections 4 are preferably provided with the hinges 8, and the attach-

ment of the said hinges to the walls is located at a sufficient distance inside the edges of the walls as to permit the said sections to be folded over and on top of each other, as best illustrated in Fig. 2. That is to say, the attachment of the hinges 8 to the sections 4 is along a line 9 which is at a considerable distance from the outer edge 10 of the said sections, which permits the same to be readily lifted up to a position at right angles to the walls 1 and placed into the notches 3, as will be readily understood. The free space 11 between the line 9 and the edge 10 of each section represents the portion of the sections 4 which is unattached to the hinge, and a like space 12 exists between the edge 13 of the walls and the line 14 representing the limits of the attachment of the hinge 8 to said walls 1. The two spaces 11 and 12 it will be readily seen enable the sections 4 to be readily lifted up, placed in position, or folded down, as shown in Fig. 2.

15 represents any suitable fastener that may be attached to one edge of the walls 1, and as shown it preferably consists of a gummed strip of cloth or paper which may be glued to the meeting edges of the said walls 1.

What I claim is:—

1. In a knock down box, the combination of a body portion provided with weakened lines adapting the same to be folded and with slots through said body portion along opposite edges thereof; a pair of end closures composed of a plurality of thicknesses of material, one of said thicknesses being cut away to provide shoulders against which said body portion is adapted to rest and the other thickness being left intact to provide projections adapted to enter said slots; and hinges securing said end sections to said body portion inside said slots and permitting said closures to fold on top of each other, substantially as described.

2. In a knock down box, the combination of a body portion provided with parallel weakened lines dividing said body into side walls and into strip portions; said body portion also provided with a row of slots near each edge; a pair of end closures composed of a plurality of layers of material one of which is cut away to form shoulders against which said strip portions rest while another layer is left intact to provide projecting portions passing through said slots;

and hinges secured to said closures leaving the spaces 11 on said closures, and the spaces 12 on said body portion, whereby said closures may fold on top of each other and between said slots, substantially as described.

3. In a knock down box, the combination of a body portion provided with parallel weakened lines dividing said body into side walls and into strip portions; said body  
10 portion also provided with a row of slots near each edge; a pair of end sections consisting of two layers of material, one of which is cut away to provide shoulders against which said strip portions rest while

the other is left intact to provide projecting 15 portions passing through said slots; hinges secured to said sections leaving the spaces 11 on said sections, and the spaces 12 on said body portion; and a gummed fastening strip secured to said body portion, substan- 20 tially as described.

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

CHARLES FRANCIS JENKINS.

Witnesses:

BEATRICE DAILEY,  
JAMES L. CRAWFORD.