

H. B. WALTER.
FORM FOR FOLDING BOXES.
APPLICATION FILED JAN. 12, 1909.

952,967.

Patented Mar. 22, 1910.

2 SHEETS—SHEET 1.

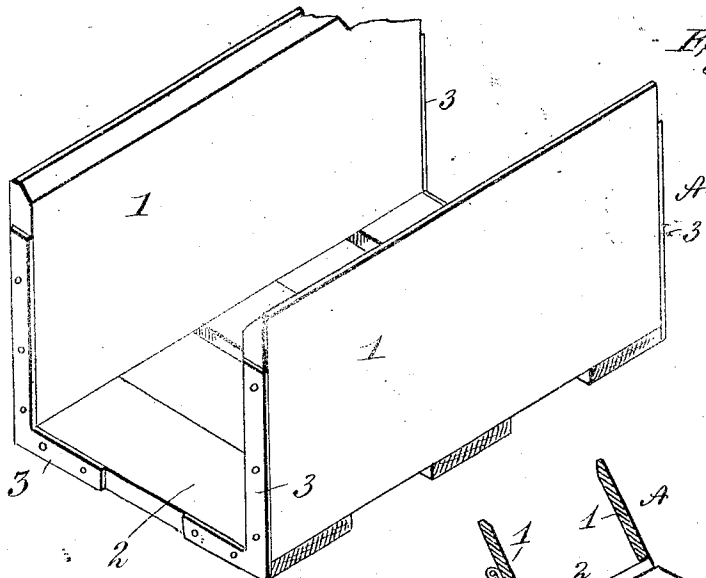


Fig. 1.

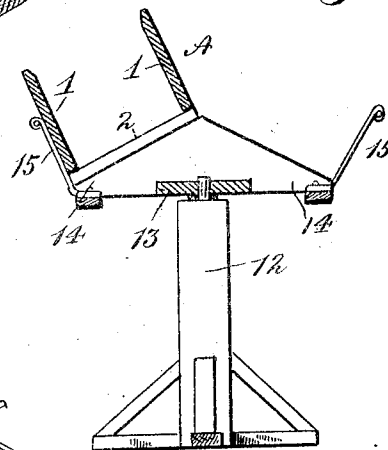


Fig. 4.

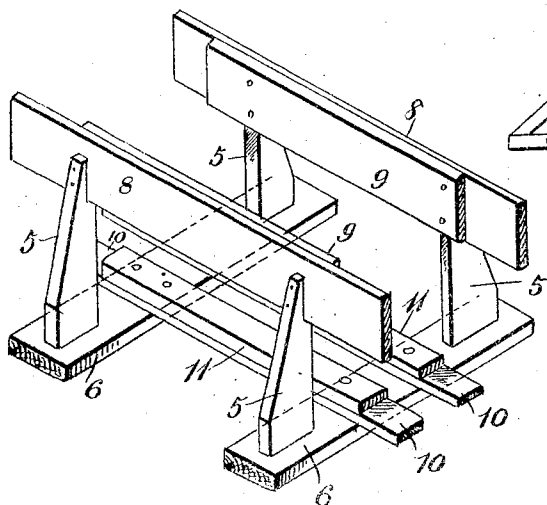


Fig. 2.

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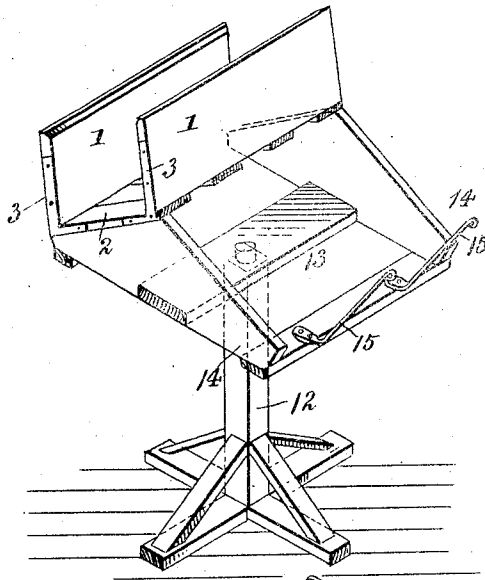


Fig. 3.

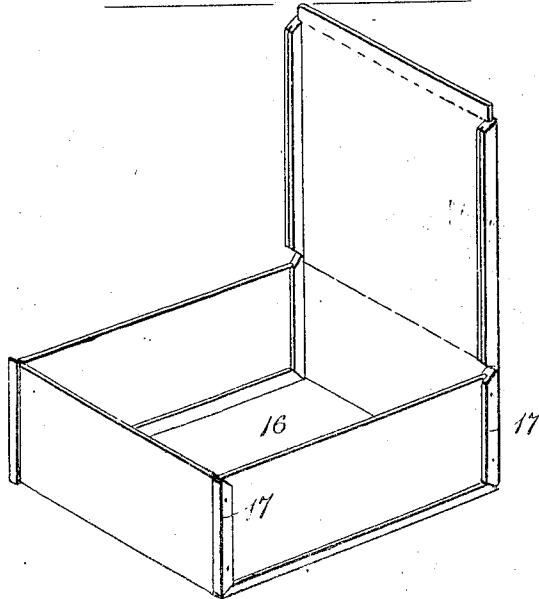


Fig. 5.

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UNITED STATES PATENT OFFICE.

HARRISON B. WALTER, OF DANVILLE, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS,
TO NATIONAL FIBRE BOX COMPANY, OF DANVILLE, ILLINOIS, A CORPORATION OF
ILLINOIS.

FORM FOR FOLDING BOXES.

952,967.

Specification of Letters Patent.

Patented Mar. 22, 1910.

Application filed January 12, 1909. Serial No. 471,923.

To all whom it may concern:

Be it known that I, HARRISON B. WALTER, a citizen of the United States, residing at Danville, in the county of Vermilion and State of Illinois, have invented certain new and useful Improvements in Forms for Folding Boxes, of which the following is a specification.

My invention relates to an improvement in forms for folding boxes and particularly for folding paper boxes into the proper shape. In assembling boxes the ends and sides of which are connected together by means of strips or brads or the like, a form is required for holding the box in shape while the person assembling the box is connecting the sides, ends and bottoms together. The box may remain in the form, if desired, while being packed and after being packed the cover of the box drawn over one of the sides and secured in any suitable manner.

The invention consists of certain novel features of construction and combinations of parts, which will be hereinafter described and pointed out in the claims.

In the accompanying drawings: Figure 1 is a view of one form of my invention in perspective; Fig. 2 is a view of another form; Fig. 3 is a view showing the construction disclosed in Fig. 1 applied upon a revolving pedestal; Fig. 4 is a sectional view through the pedestal; Fig. 5 is a view of one of the forms of boxes which can be assembled and packed upon the forms disclosed.

A represents the form or setting form, which is composed of sides 1, 1, and a bottom 2. In Fig. 1 the sides are constructed of boards and the bottom of strips which are connected to the sides. Angle braces 3 are connected to the ends of the sides and to the bottom for affording a structure with sufficient strength to serve its purposes.

In Fig. 2 the setting form is composed of the sides and bottom, but the sides instead of being of a solid piece are constructed of standards 5, which are connected to bottom strips 6. Transverse bars 8 are connected to the ends of the standards 5 and are received in the mortised ends of the standards. Connected to the inner sides of the bars 8 are strips 9, which are of less length than the length of the bars. Transverse plates

or bars 10 connect the bottom strips 6, and mounted on these bars 10 are strips 11 of the same length as the strips 9.

In Figs. 3 and 4 are disclosed a pedestal upon which the box forms can be mounted, which pedestal is constructed of a post 12 having a base or table 13 rotatably mounted thereon. The surface of the table is inclined from the center toward the ends as at 14. Brackets 15 are secured to the table at the lower edges and extend upwardly for supporting a box on each inclined surface during the assembling and packing operation of the box.

In Fig. 5 I have disclosed a construction of box which is adapted to be folded or assembled upon the form and held in readiness for packing. This form of box is one of the many forms which may be folded and packed upon these forms. The box is composed of a body portion 16, which is connected to the end battens 17, 17, each batten being of the length of the side, bottom, or top. The ends are connected to these battens by any suitable means, and after the box is formed in the proper shape the cover or top is brought over and secured to one side of the box. The body of the box is preferably constructed in one piece, the ends being separate and connected to the box when the box is brought into proper shape. The boxes to be assembled are generally in blank, or in other words, the body portion is merely creased in the places intended to fold and the battens are applied to the edges of the blank. The blank is then placed in the form, the portion to form the bottom of the box is placed upon the bottom of the form or frame and the portion to form the sides will bear against the sides of the frame or setting form as the box is folded into shape. The battens will be received beyond the ends of the form disclosed in Fig. 1, but will rest upon the bars 8 and 10 of the form shown in Fig. 2, the body of the box resting upon the strips 9 and 11. The object of the strips 9 and 11 being to hold the body of the box and to permit of the battens, which extend outwardly beyond the body to have a support. But in the form shown in Fig. 1, this is deemed unnecessary, as the sides and bottom of this form disclosed in Fig. 1 can be

received between the battens. After the sides and bottom of the box have been brought into proper shape in the form, the ends of the box are connected to the battens when the box is complete. The box is now ready to be filled or packed, and after the packing operation has been completed the cover or lid can be folded over the top of the box and secured to the side, when the box is ready for shipment. The structure, which I have provided to accomplish this result is very simple and can be manufactured at a small cost. By applying these forms to a pedestal having a rotary table two boxes can be assembled and filled and made ready for shipment at the same time. This expedient makes it possible to assemble a box either upon the pedestal or upon a table, or in any convenient place as the form or setting frame can be moved about to suit the person assembling and packing the boxes.

It is evident that more or less slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do

not wish to be limited to the exact construction herein set forth, but:

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

1. In a device for folding boxes, the combination with a pedestal, of a rotatable table on the pedestal, a frame upon which a box blank is to be folded mounted on the table, and brackets on the table for holding the frame in position.

2. In a device for folding boxes, the combination with a pedestal, of a rotatable table having inclined faces mounted on the pedestal, setting forms mounted on the inclined faces upon which a box blank is to be folded for folding and for holding a box during the packing operation, and means on the table for supporting the setting forms on the inclined faces.

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

HARRISON B. WALTER.

Witnesses:

CHARLES M. LEWIS,
FRANK B. DEAL.