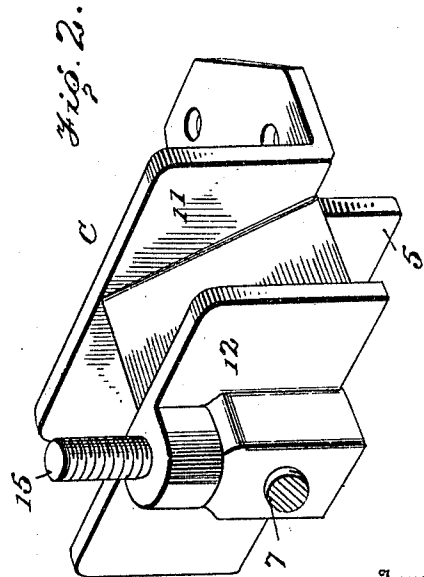
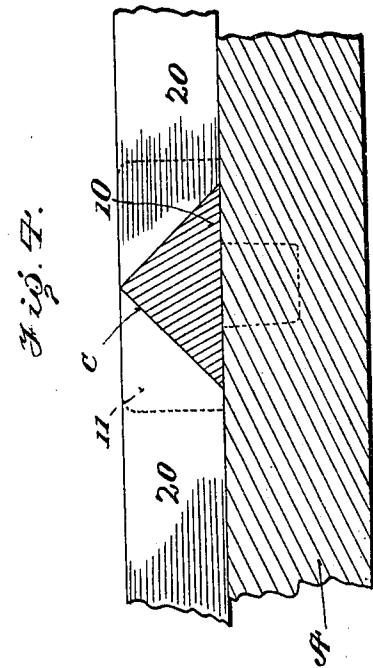
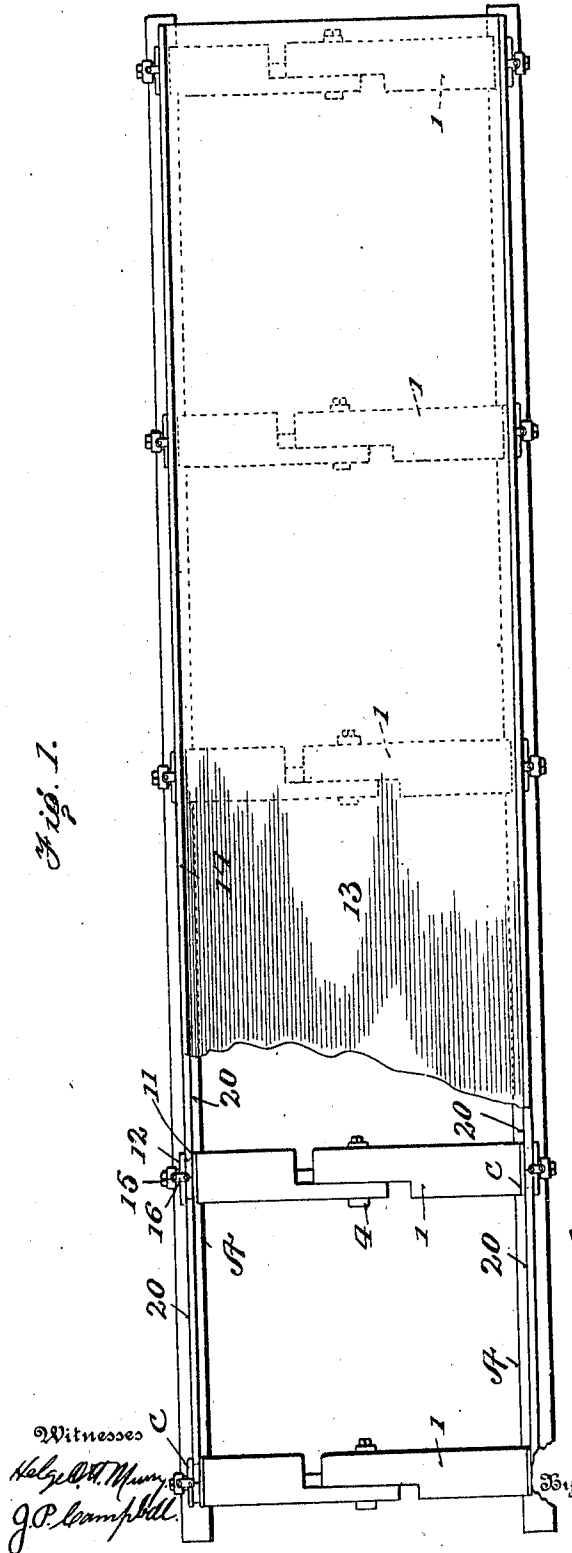


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 ASSEMBLING AND NAILING FORM FOR BOXES.
 APPLICATION FILED JUNE 12, 1909.

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Patented Mar. 22, 1910.

2 SHEETS—SHEET 1.



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Fig. 3.

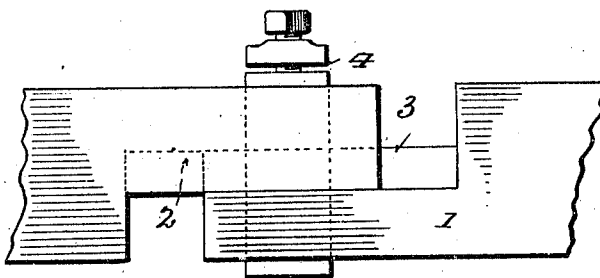
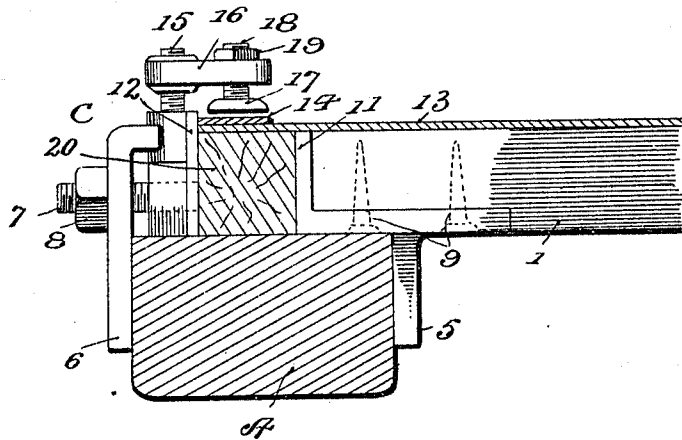


Fig. 5.

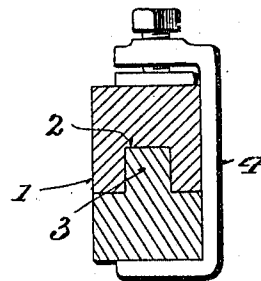


Fig. 6.

Witnesses.

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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.

ASSEMBLING AND NAILING FORM FOR BOXES.

952,968.

Specification of Letters Patent. Patented Mar. 22, 1910.

Application filed June 12, 1909. Serial No. 501,825.

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 Assembling and Nailing Forms for Boxes, of which the following is a specification.

My invention relates to an improvement in an assembling and nailing frame for boxes, and the object is to provide a frame upon which a box may be assembled and held until the parts are connected together.

The invention is adapted more particularly for folding pasteboard boxes the body portion of which is connected to battens.

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

In the accompanying drawings—Figure 1 is a plan view of the frame showing the box applied thereto with certain portions of the box broken away to disclose the structure of the frame; Fig. 2 is a perspective view of one of the heads; Fig. 3 is a sectional detailed view through one of the shoes showing a batten, mat, and band held in one of the heads; Fig. 4 is a sectional view through the head; Figs. 5 and 6 are detailed sectional views disclosing the adjustable connection between the cross bars or ties.

The frame or form consists of parallel shoes A which are connected together by cross bars 1, 1. The cross bars are made in sections, and one member is provided with a recess 2 and the other member with a tongue 3, which tongue is adapted to be received in the recess 2, and the two sections are held together by a clamp 4. This permits of the adjustment of the width of the box being assembled.

Mounted on the shoes are heads C. The heads are provided with integral arm 5, which bears against one side of the shoe, and a plate 6 bears against the other side, the plate 6 having an opening therein through which a threaded pin 7 projects, and the plate is connected to the head by a nut 8, thereby holding the head in position upon the shoe. The heads are arranged upon the shoes at different intervals and are directly opposite each other. By loosening the nut 8 upon the pin 7 the heads can be adjusted to different positions upon the shoes for dif-

ferent length boxes which are to be formed. The cross bars 1, 1 are connected to the head by screws 9 so that the cross bars are moved along the shoes at each adjustment of the heads. These adjustments are to space the parallel ties a certain distance from each other according to the distance between the creases or folding edges of the box to be made, and the bars can be adjusted by the clamps, 4 to the proper width of the box to be made.

The base 10 of the heads is provided with inclined surfaces, the incline being directed toward the center so that the highest point is at the center. On both sides of the base is a flange 11 and 12, the flange 12 being the outermost flange, is of greater height than the flange 11 and forms a stop or gage for the mat or body 13 of the box, and the metal band 14, which is received upon the mat. A threaded pin 15 is formed on the head and mounted on the pin is a bar 16, which permits the bar to be swung upon the pin, and as the bar is moved it moves upwardly or downwardly upon the pin. The bar 16 carries at its other end a presser foot 17, which is adjustably mounted thereon. The presser foot is provided with a screw threaded shank 18 which passes through the bar 16 and a nut 19 is received on the screw threaded shank for adjusting the position of the presser foot. The presser foot 17 is adapted to be swung into position by the bar B so that the presser foot will rest upon the metal band 14 and hold the same in position upon the batten for the nailing operation.

When it is desired to form the box the battens 20 are mounted upon the shoes, A, and the mitered ends of the battens will be received upon the inclined surfaces of the base 10 of the head. The battens will be held between the flanges 11 and 12 of the heads and thus be prevented from becoming displaced. The mat 13 is then placed upon the frame and upon the battens 20, then the metal bands 14 are placed along the edges over the mat and batten, then the bar 16 is swung, causing the presser foot 17 to bear down upon the metal band, holding the band and mat in position upon the batten. The box is now ready for the nailing operation, and the nails can be driven through the band, mat, and into the batten, by hand or by pushing the frame into a nailing ma-

chine. It is my intention that this frame should be fed to a nailing machine (not shown) whereby the band and mat can be connected to the battens. After the box has
 5 been formed it can be removed from the frame and another box assembled and made ready for the nailing operation. The box after it has been removed from the frame can be then folded into shape and be ready
 10 for use.

From the foregoing it will be seen that I have provided a very simple means for forming a box whereby all the parts may be assembled and connected together.

15 It is evident that more or less slight changes might be made 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
 20 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:

25 1. In an assembling and nailing form for boxes, the combination of a frame having heads thereon adapted to hold the battens of the box, and means on the head for holding the mat upon the battens.

30 2. In an assembling and nailing form for boxes, the combination with shoes, of heads mounted on the shoes, and bars connected to the heads.

35 3. In an assembling and nailing form for boxes, the combination with shoes, of heads adjustably mounted thereon, bars made in

sections connected to the heads, and means for connecting the sections together.

4. In an assembling and nailing form for boxes, the combination with shoes, of heads
 40 mounted on the shoes adapted to receive the battens of the box therebetween, and adjustable bars connected to the heads.

5. In an assembling and nailing form for boxes, the combination of a frame having
 45 heads thereon, flanges on the heads for retaining the battens in position, and means on the heads for holding the mat and band upon the battens.

6. In an assembling and nailing form for
 50 boxes, the combination of a frame having heads thereon, the base of the heads having inclined surfaces to receive the mitered ends of the battens, flanges on the head for retaining the battens in position, and a presser
 55 foot for holding the mat and band on the battens.

7. In an assembling and nailing form for boxes, the combination of a frame having
 60 heads thereon, the base of the heads having inclined surfaces to receive the mitered ends of the battens, flanges on the head for retaining the battens in position, and an oscillating presser foot for holding the mat
 65 and band on the battens.

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

HARRISON B. WALTER.

Witnesses:

CHAS. MAIER,
 JAMES MCGARY.