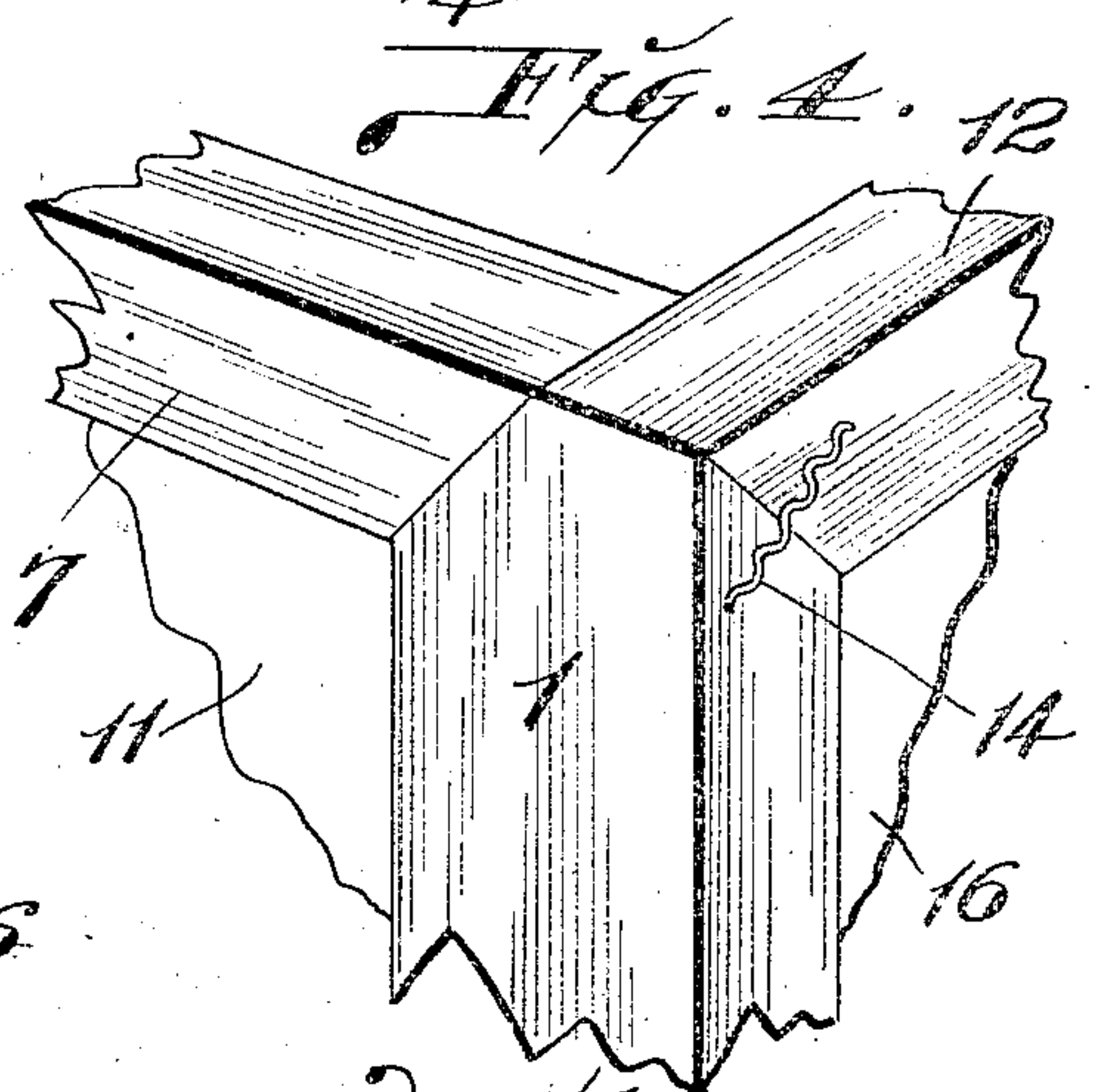
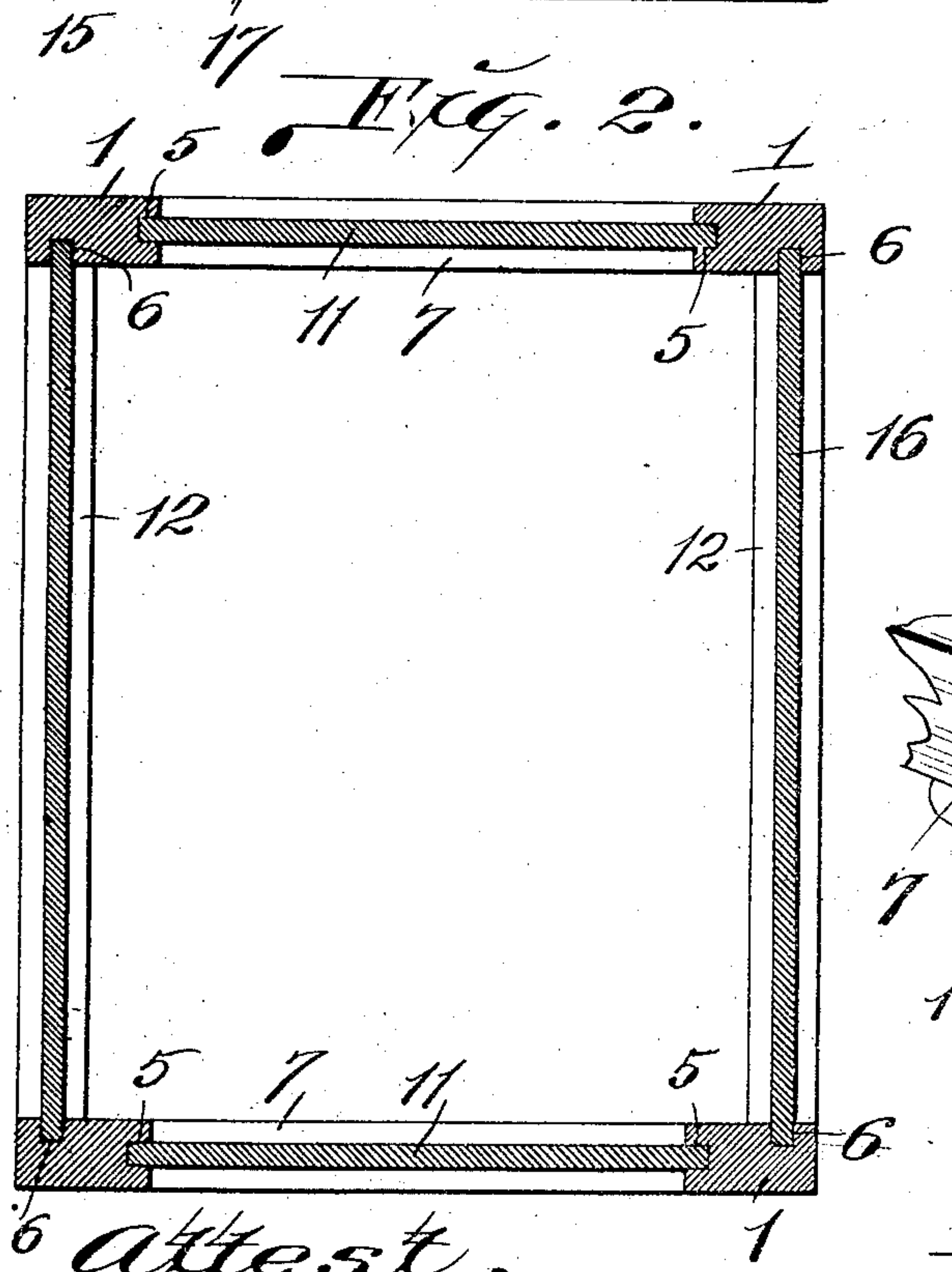
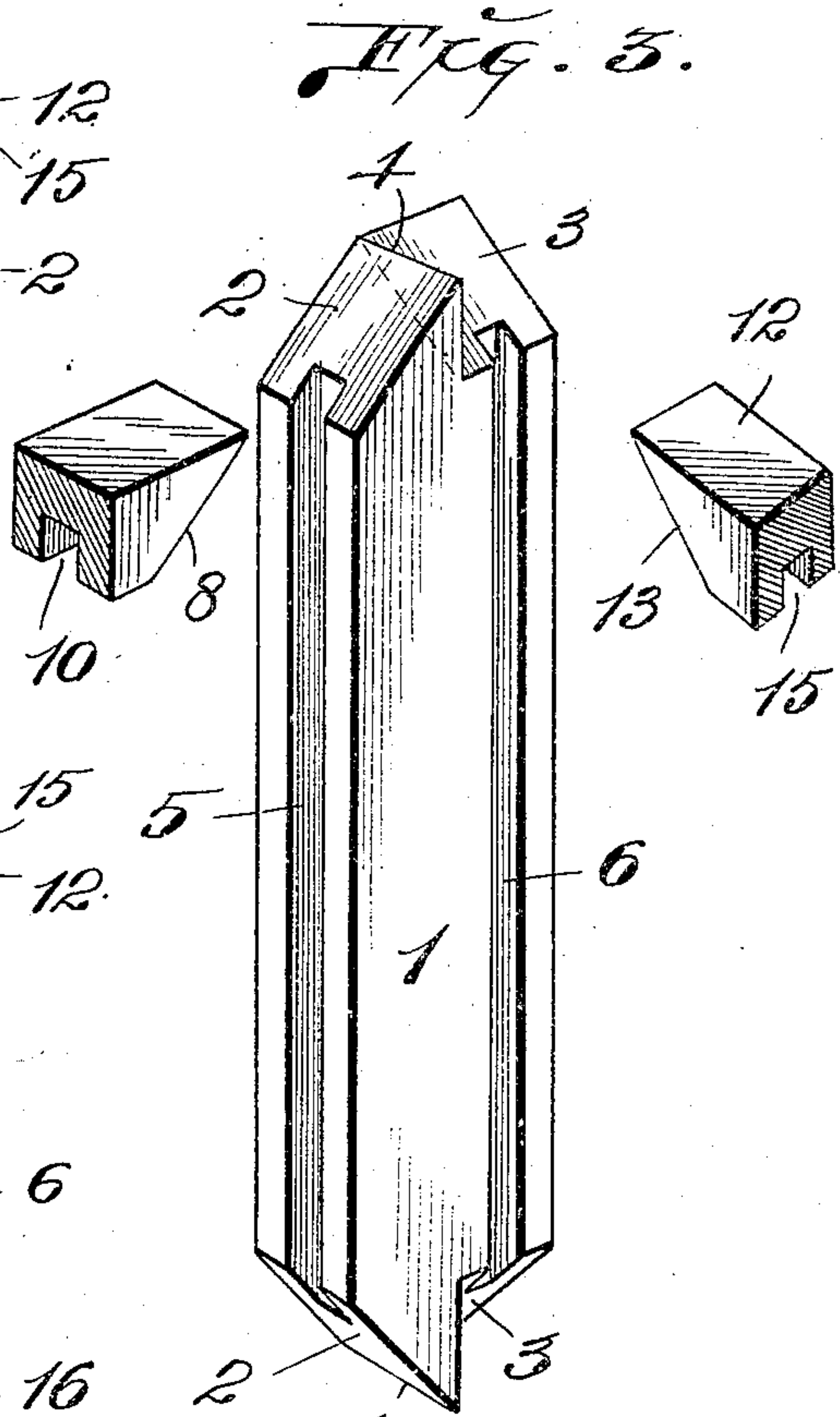
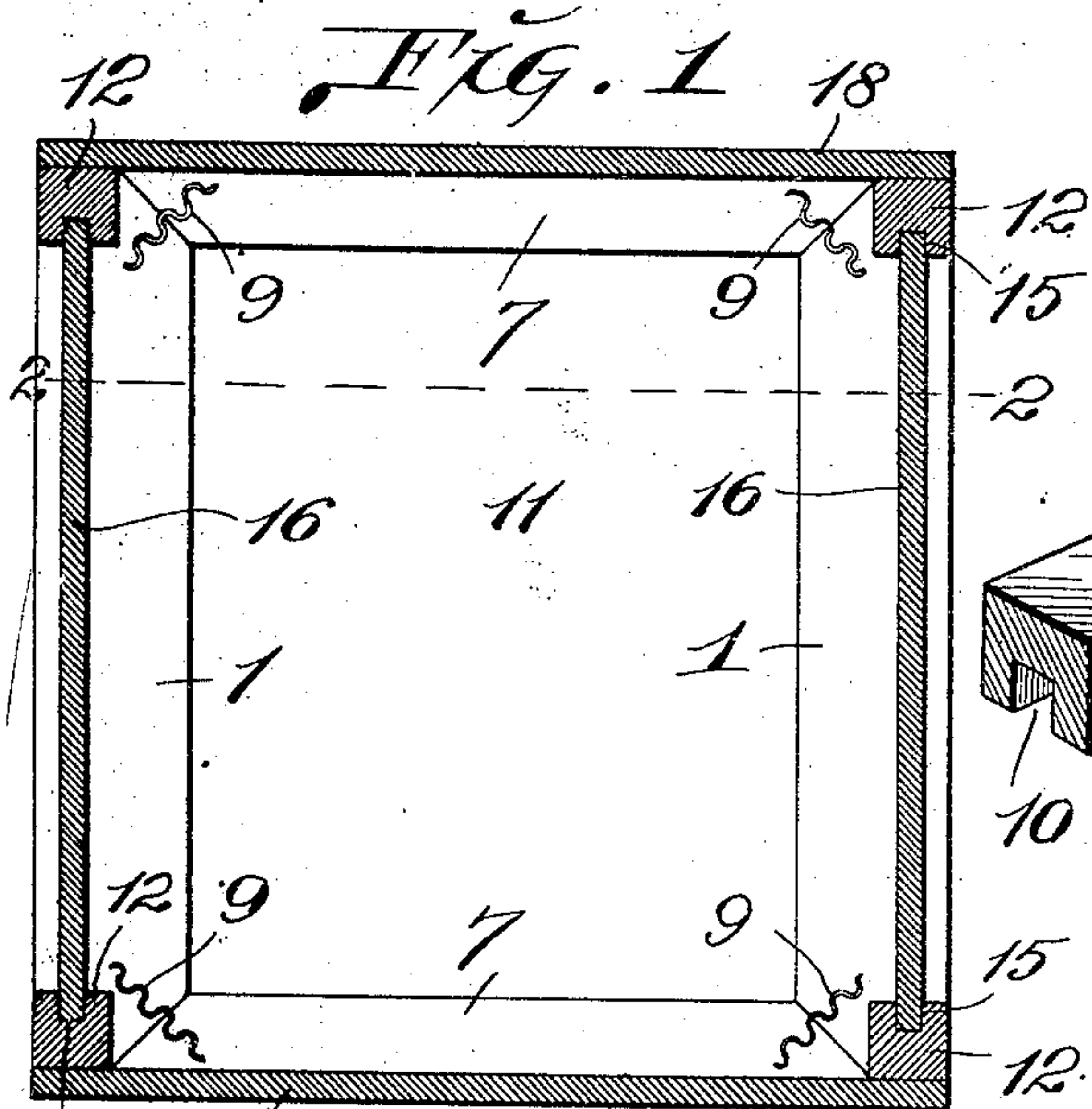


G. T. RIDDLE.
 PACKING BOX.
 APPLICATION FILED JULY 5, 1907.

915,113.

Patented Mar. 16, 1909.



Attest,
 M. F. Smith,
 Edgar T. Farmer.

Inventor,
 George T. Riddle.
 By Nigdon & Longan
 attys.

UNITED STATES PATENT OFFICE.

GEORGE T. RIDDLE, OF ST. LOUIS, MISSOURI.

PACKING-BOX.

No. 915,113.

Specification of Letters Patent.

Patented March 16, 1909.

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To all whom it may concern:

Be it known that I, GEORGE T. RIDDLE, a citizen of the United States, and resident of St. Louis, Missouri, have invented certain new and useful Improvements in Packing-Boxes, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to a packing box, my object being to construct a box wherein material and labor is saved, thus simplifying and cheapening the cost of manufacture; and which box is constructed with a frame, comprising corner posts, end and side rails, and with panels on the ends and sides, thus providing a very strong and rigid construction, and providing broad surfaces on which to nail the top and bottom of the box.

To the above purposes, my invention consists in certain novel features of construction and arrangement of parts, which will be hereinafter more fully set forth, pointed out in the claims, and illustrated in the accompanying drawings, in which:—

Figure 1 is a transverse section taken vertically through the center of a box of my improved construction; Fig. 2 is a horizontal section taken on the line 2—2 of Fig. 1; Fig. 3 is a perspective view of one of the corner posts of my improved box, and showing the end portions of the end and side rails which are fitted to the ends of the corner posts; Fig. 4 is a perspective view of one of the upper corners of a box of my improved construction, with the top removed therefrom.

In the construction of my improved box, I make use of four corner pieces, or posts 1, which are rectangular in cross section, and each end of which is provided with a pair of inclined or beveled faces 2 and 3, which are arranged at right angles to one another, and each face occupying one-half the area of the end or cross section of the post; and thus a transverse edge or dividing line 4 is formed at the upper end of the face 2, which line or edge is midway between the edges of the post. Formed in the edge of each post, between the lower ends of the beveled faces 2, is a vertically disposed groove 5; and formed in the face of the post, between the lower ends of the beveled faces 3, is a vertically disposed groove 6, both of which grooves receive the side edges of the panels which form the ends and sides of the completed box. End rails 7, rectangular in cross section, have their ends

beveled, as designated by 8, in order to fit onto the beveled faces 2, and said rails are rigidly fixed to the corner posts 1 by corrugated fastening devices, such as 9, or in any suitable manner. Formed in the under side of the rail 7, at the top of the box, and in the top side of the rail at the bottom of the box, are grooves 10, the ends of which coincide with the ends of the grooves 5 in the edges of the posts 1; and when the frame of the box is assembled, rectangular panels 11 are fitted between the posts 1 and the rails 7, with the edges of said panels occupying the grooves 5 and 10. Side rails 12 have their ends beveled, as designated by 13, and fitted onto the beveled faces 3 of the corner posts, and said rails 12 being rigidly fixed to said posts by fastening devices, such as 14; and formed in the under side of the top rail, and in the top of the lower rail, are grooves 15, the ends of which coincide with the ends of the groove 6 in the corner posts; and when the frame is assembled, side panels 16 of thin material are arranged between the corner posts and side rails, with the edges of said side panels occupying the grooves 6 and 15.

The bottom of the box comprises a rectangular section 17, of suitable material, the edges of which are fitted onto the bottom surfaces of the lower end rails 7 and lower side rails 12, and said bottom being secured in position by nails, or other suitable fastening devices. The top 18 is a counterpart of the bottom 17, and has its edges fitted and secured to the top surfaces of the upper end rails 7 and upper side rails 12.

The frame of my improved box, comprising the corner posts 1, and the end and side rails 7 and 12, provides a very strong and rigid construction, and which is made extra strong and rigid when the end and side panels 11 and 16 are in position. The panels 11 and 16 can be made of comparatively thin material, thus greatly reducing the amount of lumber required to construct a box, and consequently reducing the cost of manufacture thereof.

The frame and body of the box are quickly assembled, as all nailing of the panels is done away with, and the arrangement of the side and end rails provides broad surfaces on which to nail or secure the box top and bottom.

I claim:—

1. In a box of the class described, a corner post constructed of a single piece of material:

both ends of which are provided with a pair of rectangular beveled faces, which faces are arranged at right angles to each other, there being a triangular face formed at the center
5 of the post between the pair of rectangular faces, and there being grooves formed in the sides of the corner post for the reception of the side and end panels of the box.

2. In a box of the class described, a corner
10 post constructed of a single piece of material provided on two of its sides with longitudinally disposed grooves for the reception of the side and end panels of the box, and each end of the post being provided with a pair of
15 rectangular faces equal in area, said faces being inclined and arranged at right angles to each other, there being a triangular face formed at the center of the post between the

pair of rectangular faces, and the edges of the outer ends of the faces occupying the same 20 plane.

3. In a box of the class described, a corner post constructed of a single piece of material, one end of which is provided with a pair of rectangular faces equal in area, and which 25 faces are inclined and arranged at right angles to one another, and there being a triangular face formed at the center of the post between the pair of rectangular faces.

In testimony whereof, I have signed my 30 name to this specification, in presence of two subscribing witnesses.

GEORGE T. RIDDLE.

Witnesses:

M. P. SMITH,

E. L. WALLACE.