

J. F. JACOBS.
MITER CLAMP.

APPLICATION FILED AUG. 3, 1903.

NO MODEL.

2 SHEETS—SHEET 1.

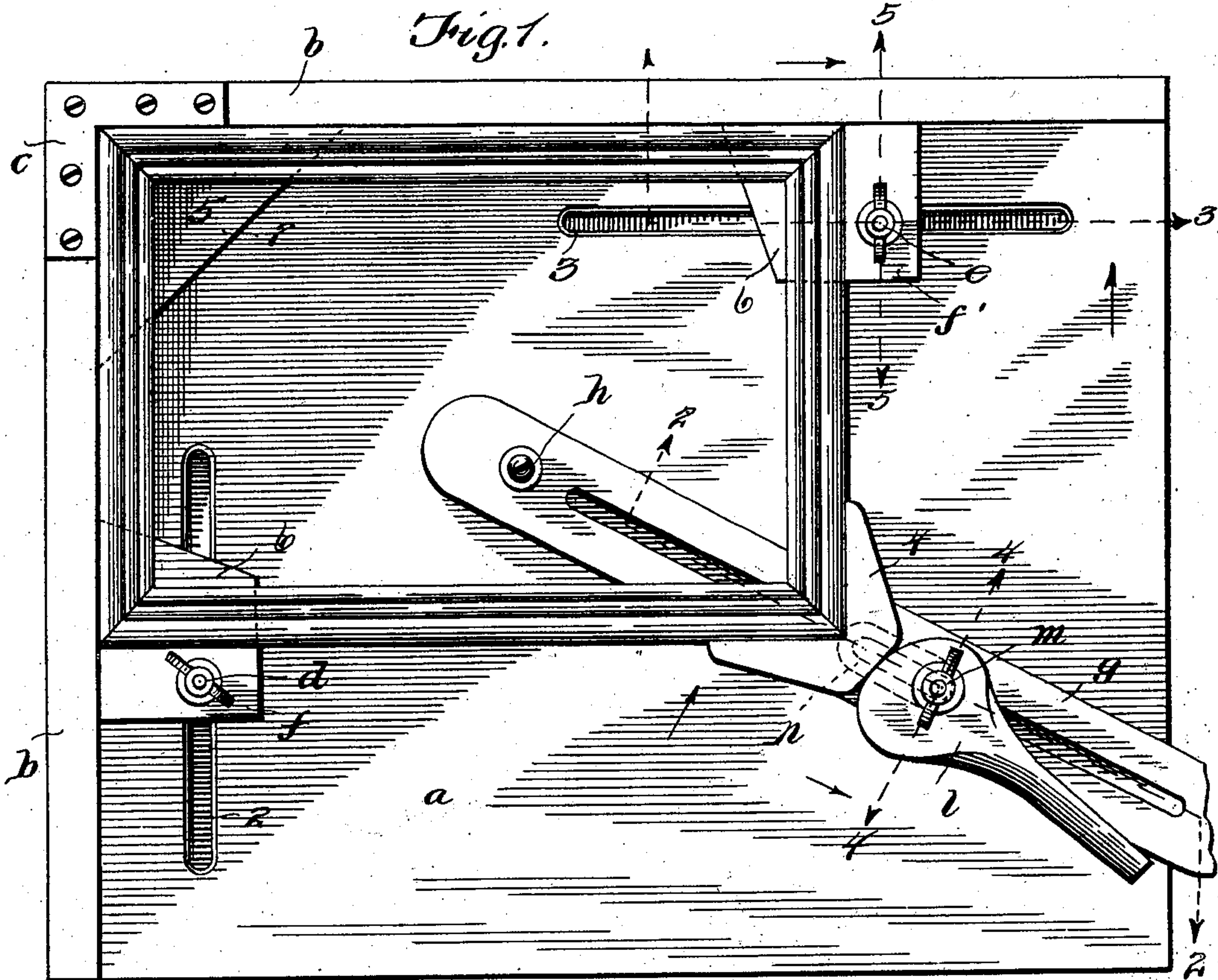


Fig. 5.

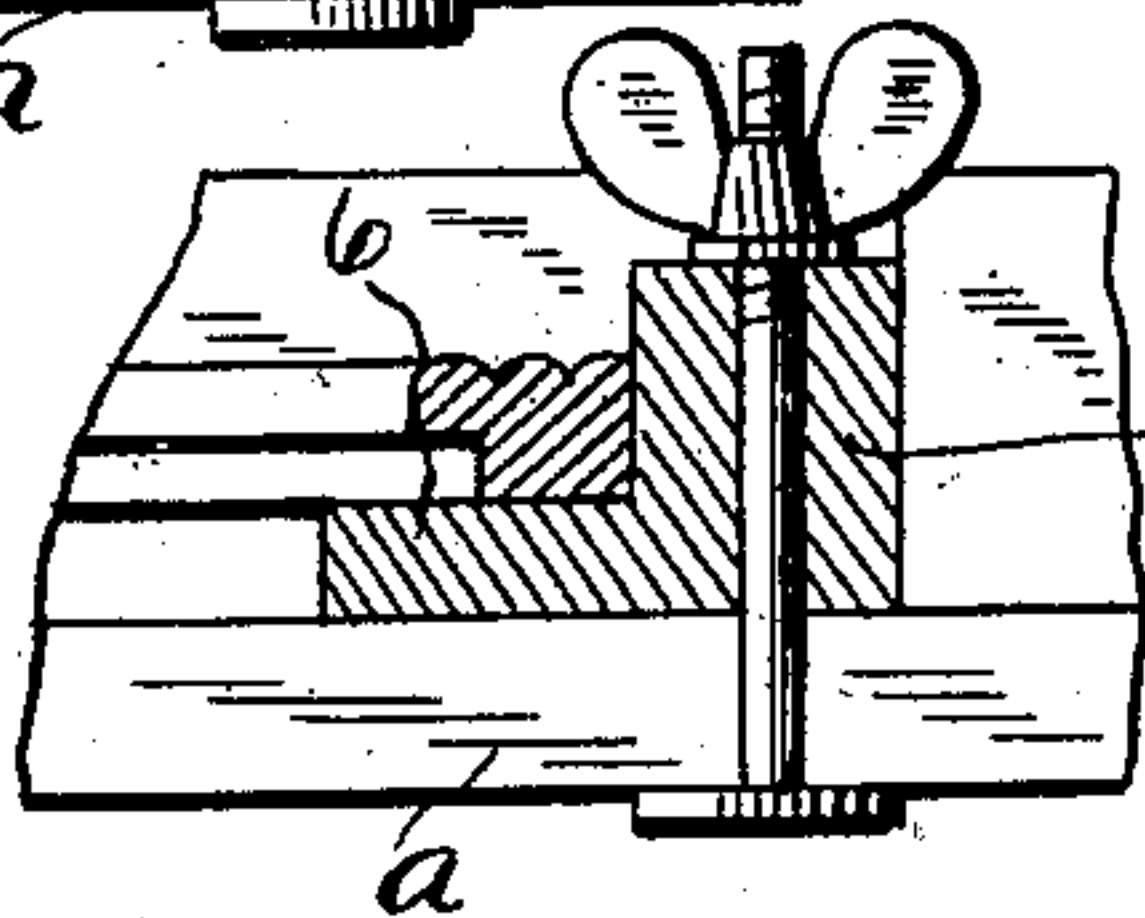
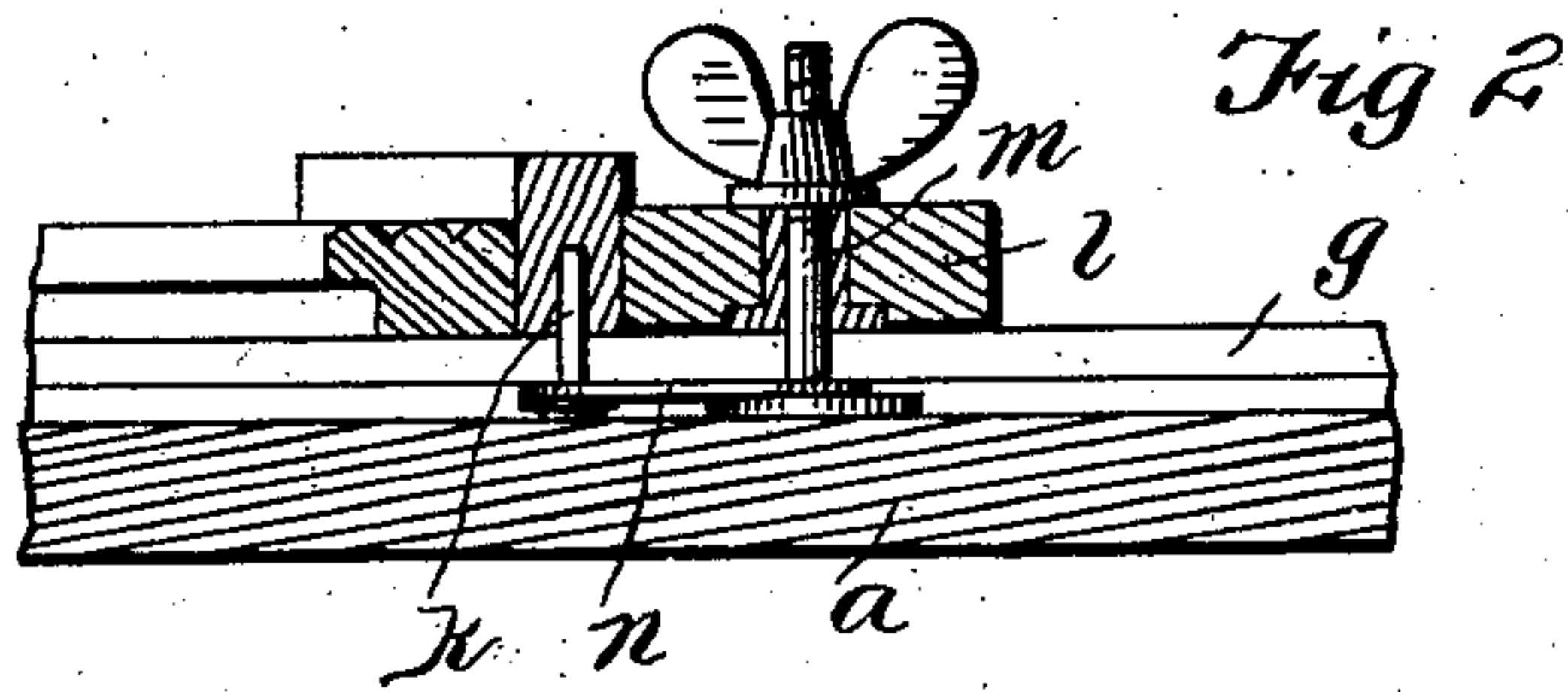
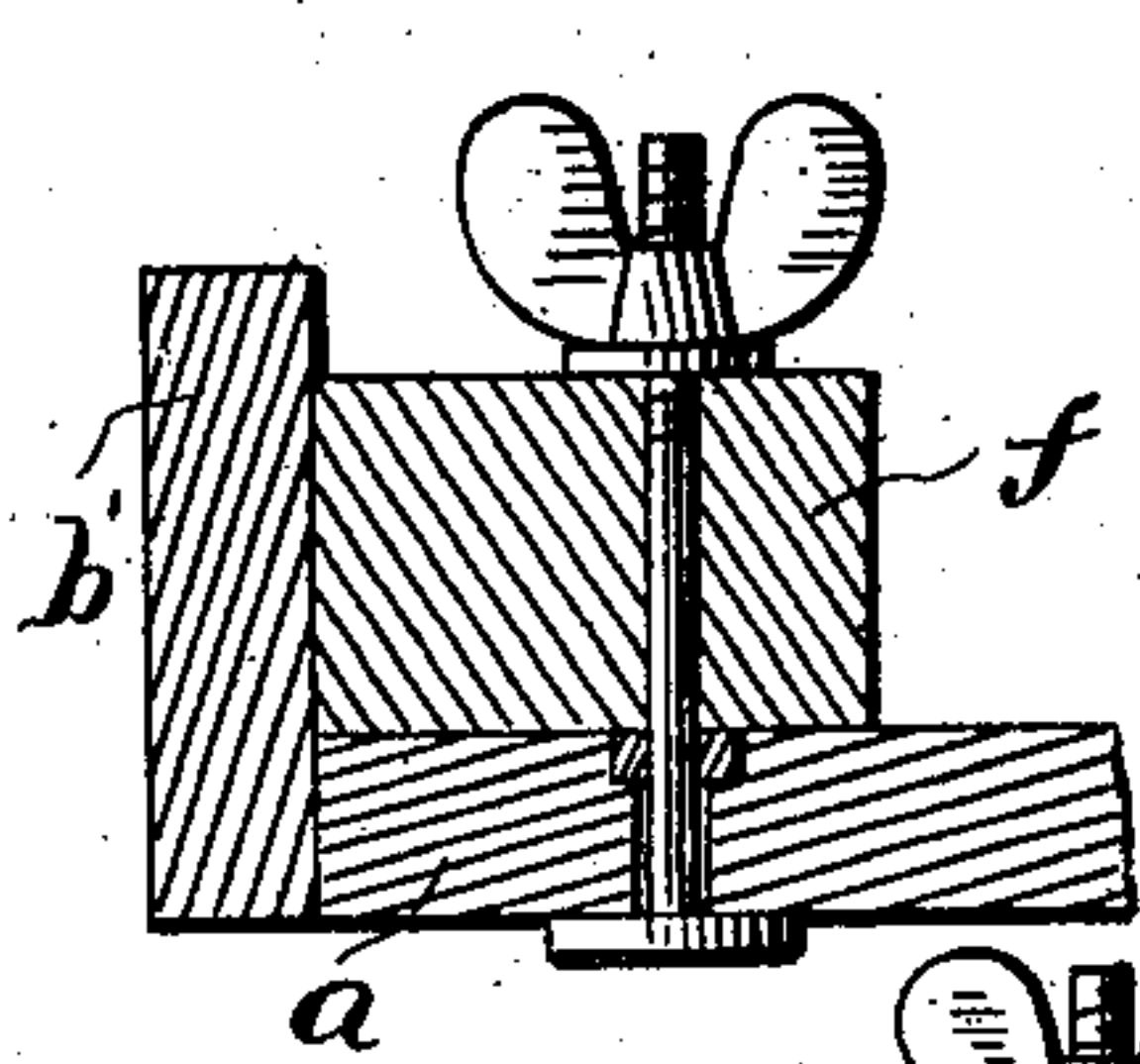
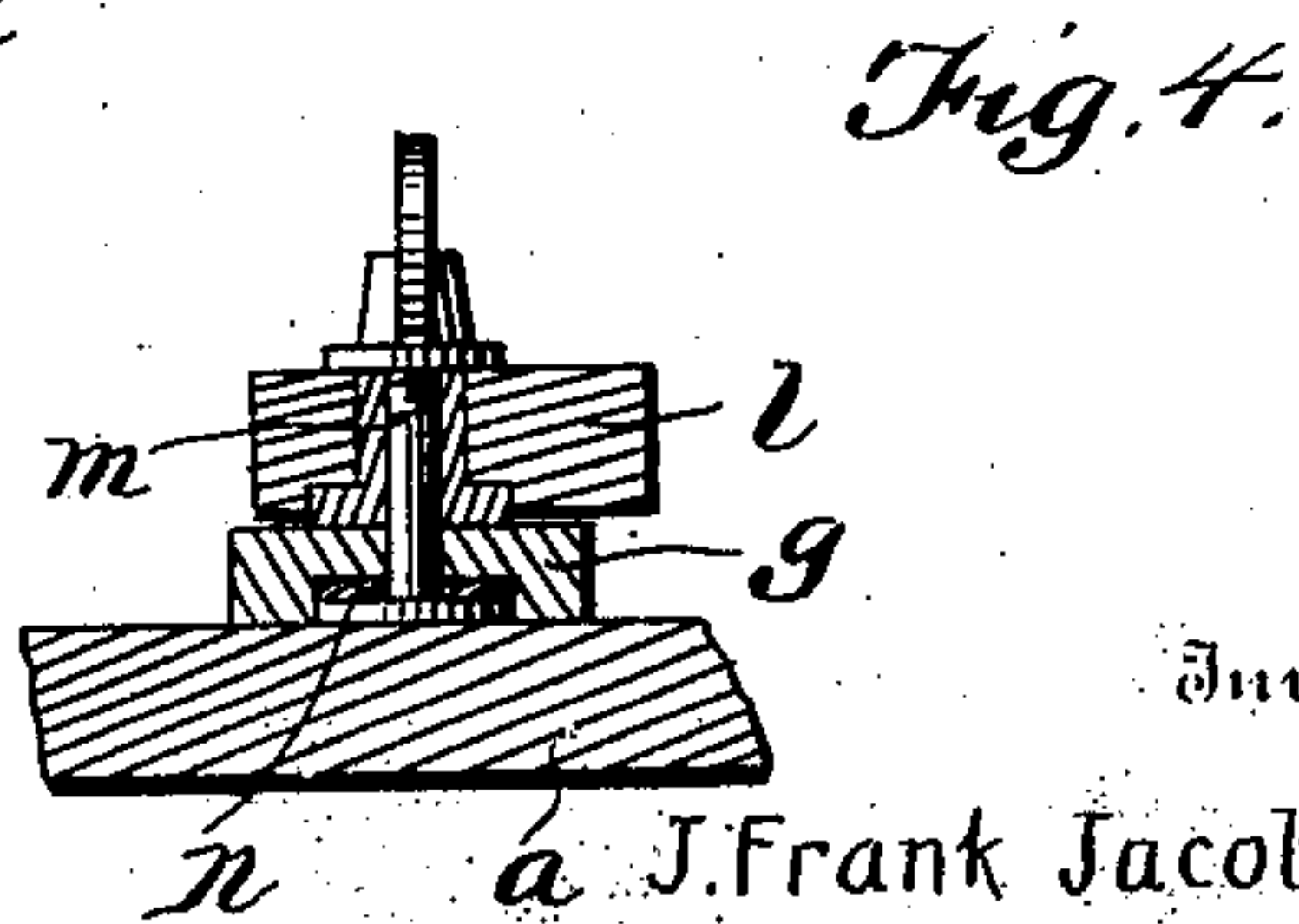


Fig. 3.



Witnesses

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George M. Anderson.

Inventor

J. Frank Jacobs,

by *E. W. Anderson*

his

Attorney

No. 744,555.

PATENTED NOV. 17, 1903.

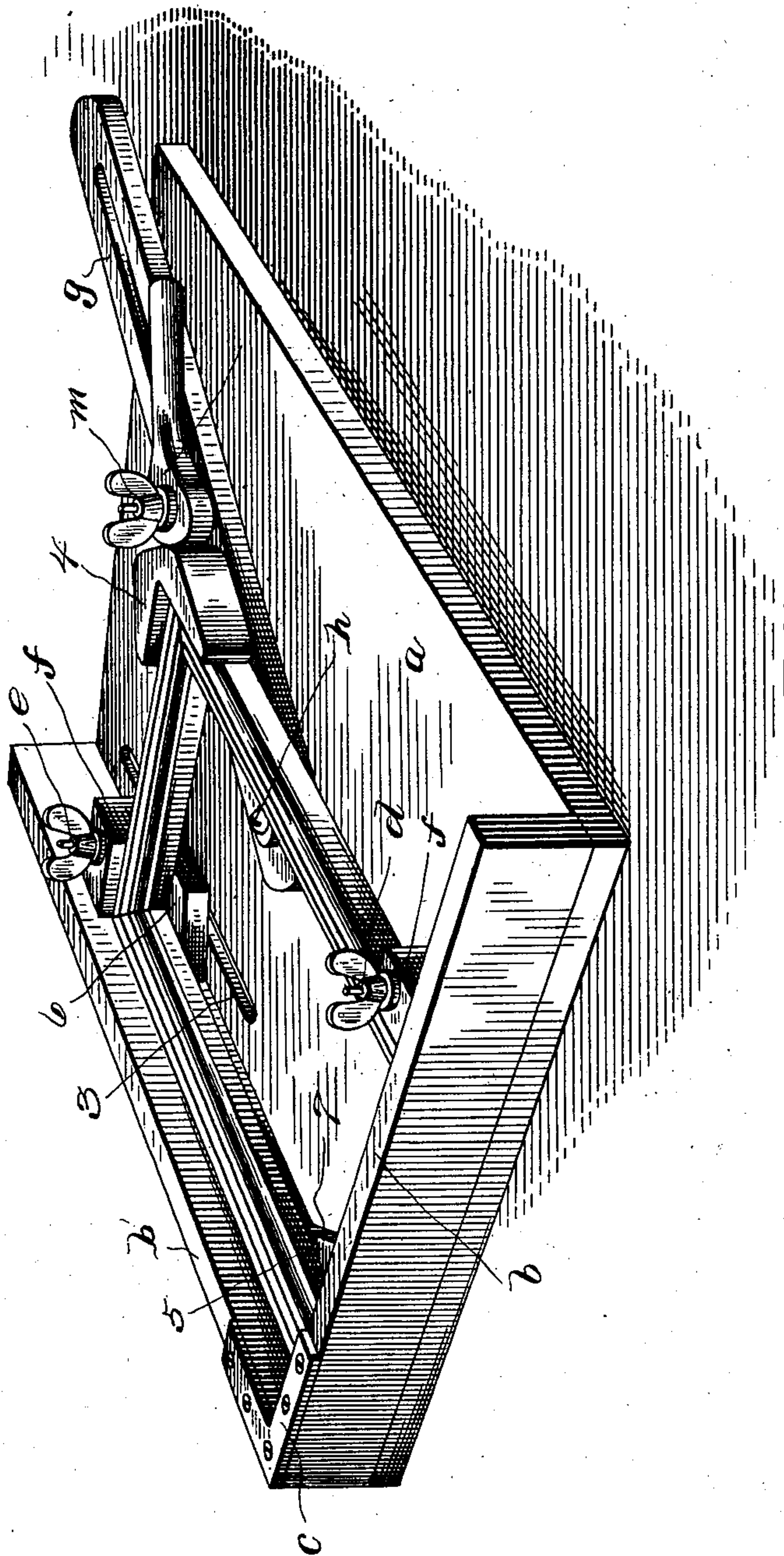
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MITER CLAMP.

APPLICATION FILED AUG. 3, 1903.

NO MODEL.

2 SHEETS—SHEET 2.

Fig. 1.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN FRANK. JACOBS, OF BURNHAM, PENNSYLVANIA.

MITER-CLAMP.

SPECIFICATION forming part of Letters Patent No. 744,555, dated November 17, 1903.

Application filed August 3, 1903. Serial No. 168,043. (No model.)

To all whom it may concern:

Be it known that I, JOHN FRANKLIN JACOBS, a citizen of the United States, and a resident of Burnham, in the county of Mifflin and State of Pennsylvania, have made a certain new and useful Invention in Miter-Clamps; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters and figures of reference marked thereon, which form a part of this specification.

Figure 1 is a top plan view of the invention. Fig. 1^a is a perspective view of the same. Fig. 2 is a sectional view on the line 2 2 of Fig. 1. Fig. 3 is a sectional view on the line 3 3 of Fig. 1. Fig. 4 is sectional view on the line 4 4 of Fig. 1. Fig. 5 is a sectional view on the line 5 5 of Fig. 1.

This invention has relation to miter-clamps; and it consists in the novel construction and combinations of parts, as hereinafter set forth.

The object of the invention is to provide a miter-clamp designed for holding a picture-frame or other right-angled miter in position after glue has been applied until the glue has sufficiently set to enable it to be handled without support.

In the accompanying drawings, illustrating the invention, the letter *a* designates a plane-surface base; *b* and *b'*, end and side walls connected to the edges of the said base and strengthened at their junction by the angle-plate *c*. Slots 2 and 3 are made through the base parallel to said end and side walls. The clamp-screws *d* and *e* extend through the slots 2 and 3 and also through the flanged end and side clamp-blocks *f* and *f'*, which are adjacent to the end and side walls and are adjustable in directions at right angles to each other.

An oblique slotted arm *g* is pivoted by its inner end to the base at the point *h*, which is designed to be within the area of the smallest size frame to be clamped. This arm carries a right-angle corner-bearing 4, this bearing having, besides the radial adjustment through the arm *g*, a sliding movement in

said slot and rotary play on its pivot-stem *k*. A cam-lever *l*, having clamp-screw *m*, is also provided in connection with the slot of said arm. This cam-lever is designed to operate in engagement with the corner-bearing and is connected therewith by means of the slot-link *n*. A ledge 5 is provided in the angle 7, formed by the walls *b* and *b'*.

In operation the clamp-blocks *f f'* and the corner-bearing 4 are adjusted in about proper position to accommodate the work to be clamped, and the mitered parts of a frame are glued and set together on the seat provided by the flanges 6 of the holding clamp-blocks *f f'*, the arm *g*, and the ledge 5, these bearings forming the seat being of uniform elevation from the base. The clamp-blocks are then moved against the corner portions of the frame contiguous thereto and their screws fixed. Three corners being held by the clamp-blocks and the side and end walls in their angular relation to each other, the pivoted corner-bearing 4 is adjusted against the remaining corner, the cam-lever is turned up against it, and its clamp-screw fixed, thereby locking all the corners of the frame firmly in position. The work is then left to dry.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. A miter-clamp consisting of a slotted base, side and end walls, adjustable holding-blocks, a pivoted oblique arm, and an adjustable corner-bearing, substantially as specified.

2. A miter-clamp consisting of side and end walls, adjustable holding-blocks, an oblique slotted arm, an adjustable pivoted corner-bearing, and means for locking the same, substantially as specified.

3. A miter-clamp consisting of a base, side and end walls, adjustable holding-blocks, an adjustable slotted arm, an adjustable pivoted corner-bearing, and means for locking the whole together, substantially as specified.

4. A miter-clamp consisting of side and end walls, adjustable holding-clamps, and an oblique pivoted clamping-arm, substantially as specified.

5. A miter-clamp consisting of a slotted base, side and end walls, holding-clamps and

an oblique slotted pivoted arm carrying a pivoted corner-bearing, and means for applying pressure thereto, substantially as specified.

5 6. A miter-clamp consisting of a slotted base, adjustable holding-clamps, an oblique slotted pivoted arm carrying a corner-bearing and a lever-cam in engagement therewith, substantially as specified.

10 7. A frame-clamp comprising a slotted base, having end and side walls, and an interior angle-ledge, adjustable flanged clamp-blocks, and an adjustable corner-bearing connected to an oblique arm pivoted to said base, substantially as specified.

8. In a frame-clamp, the combination with 15 the base, and the side and end clamp-blocks operating at right angles to each other, of the radially pivotally and longitudinally-adjustable corner-bearing in the angle between the side and end clamp-blocks, substantially as 20 specified.

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

J. FRANK. JACOBS.

Witnesses:

WM. S. SETTLE,
T. H. BRANNON.