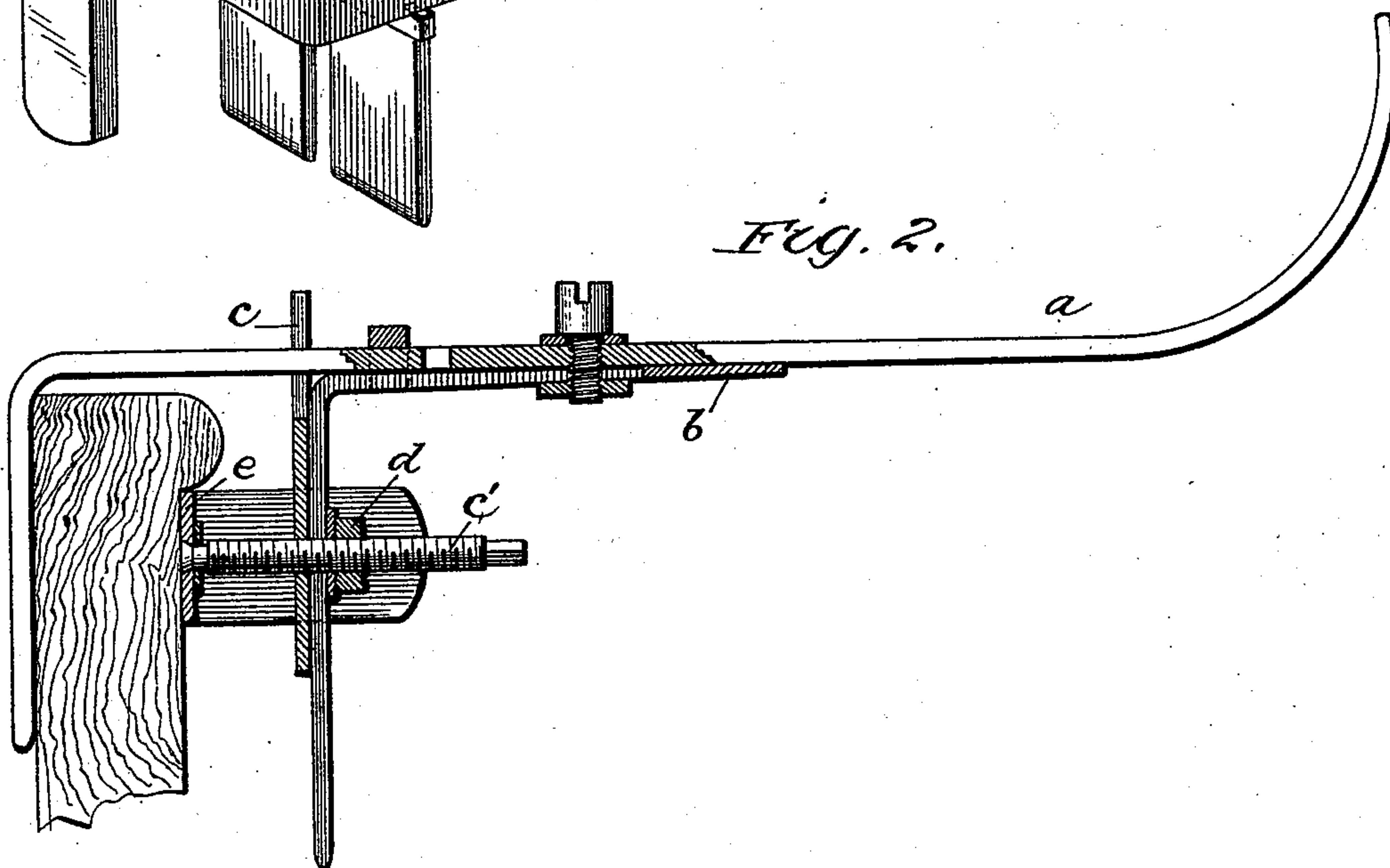
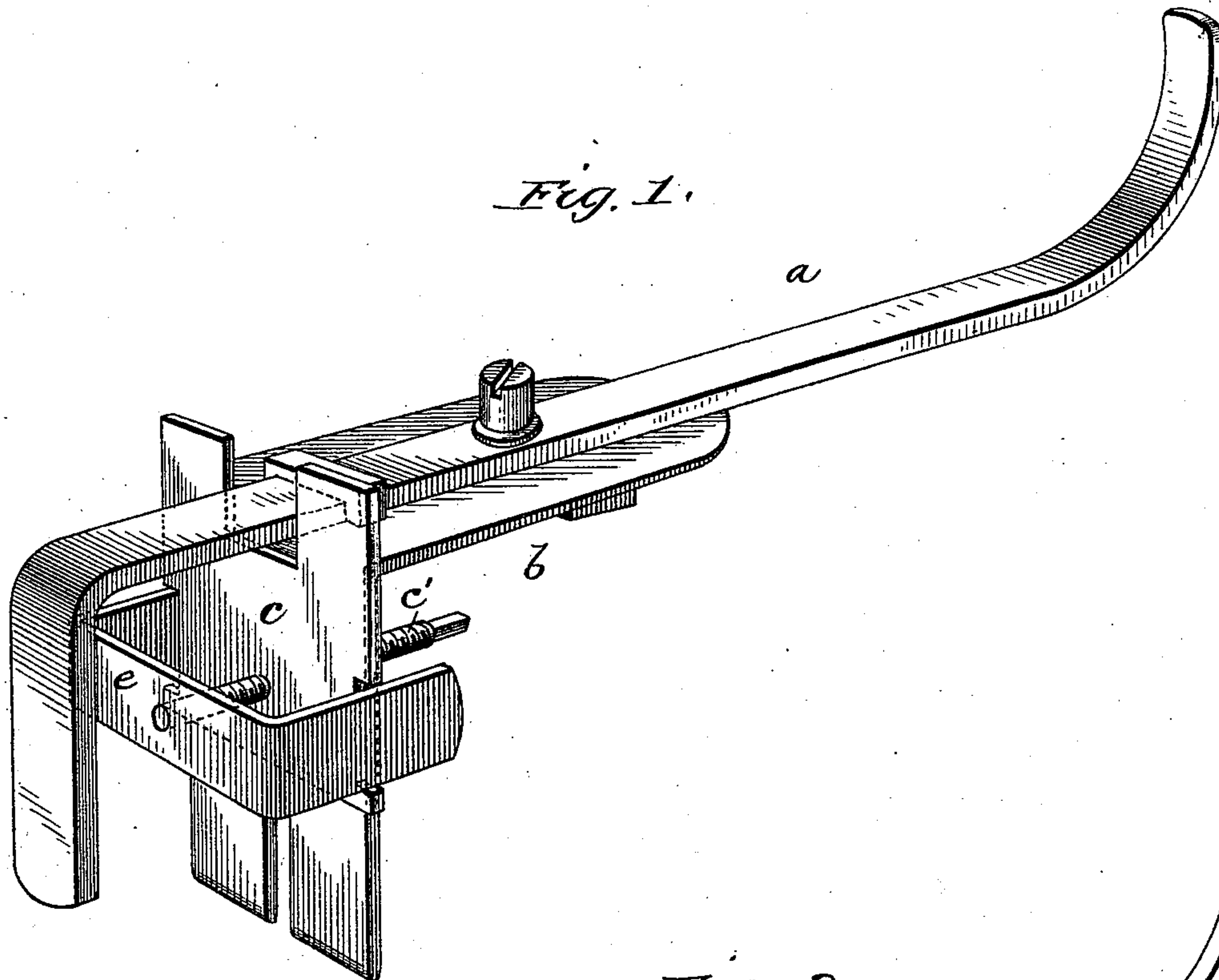


(No Model.)

J. M. MAURER.  
OBSTETRICAL STIRRUP.

No. 529,626.

Patented Nov. 20, 1894.



Witnesses  
Charles A. Myers.  
J. M. Maurer

Inventor  
Joseph Morgan Maurer.  
By Alexander Davis,  
Attorneys



# UNITED STATES PATENT OFFICE.

JOSEPH M. MAURER, OF WASHINGTON, PENNSYLVANIA.

## OBSTETRICAL STIRRUP.

SPECIFICATION forming part of Letters Patent No. 529,626, dated November 20, 1894.

Application filed December 6, 1893. Serial No. 492,931. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH MORGAN MAURER, a citizen of the United States, residing at Washington, in the county of Washington and State of Pennsylvania, have invented certain new and useful Improvements in Obstetrical Stirrups, of which the following is a specification, reference being had therein to the accompanying drawings.

10 In the accompanying drawings, Figure 1. designates a perspective view of the improved stirrup; and Fig. 2 a vertical sectional view thereof.

15 This invention relates to that class of obstetrical stirrups covered by my former patent, No. 505,319, and dated September 19, 1893, said stirrups being adapted to be applied to the side rails of beds and to operating chairs to assist the physician in vaginal, womb and 20 rectal operations and examinations.

The present improvement has for its object the provision of means for more securely attaching the stirrups to bed rails provided with ornamental moldings along their upper 25 edges.

Referring to the drawings by letter, *a* designates the main-bar of the stirrup, which is bent upwardly at its outer end to form a stirrup and downwardly at its other end to form 30 a clamping-jaw. The movable clamping-jaw *b* is adjustably attached to the main-bar and constructed the same as in my former patent. The attachment consists of a vertically adjustable plate *c* clamped to the inner face of the movable jaw *b* and having its upper end 35 bifurcated so as to embrace the main-bar, the two arms formed by the bifurcation to vertically guide the plate and prevent it twisting. This plate is clamped adjustably to the jaw 40 by means of a screw-bolt *c'* which passes horizontally through the vertical slot in the clamping-jaw and is tapped through a threaded opening in the plate, a nut *d* being screwed on the bolt up against a washer interposed 45 between the nut and the clamping jaw. The outer end of the screw is squared for the reception of a suitable operating key and its inner end is pivotally attached to a bearing-plate *e* whose opposite ends are bent outward 50 and slide in notches formed in the vertical edges of the plate *c*, these outwardly bent arms

serving to guide the bearing plate and retain it in its position.

To adjust and attach the device to a bed-rail provided with a molding, it is simply 55 necessary to place the clamping jaws down over the edge of the rail, then loosen the nut on the screw and adjust the vertical plate so as to bring the bearing-plate below the molding, and then (by means of a key) screw up 60 the screw until the bearing plate bears firmly upon the face of the bed rail. The stirrup is then firmly held in place ready for use. It will be observed that the nut simply holds the bearing plate and vertical plate in place 65 on the clamping jaw until the parts are adjusted or rather placed over the edge of the bed rail.

Having thus fully described my invention, what I claim is— 70

1. The combination of a stirrup having two jaws, one being horizontally movable on the stirrup bar, a vertically adjustable plate clamped to said movable jaw, a horizontally adjustable screw carried by said plate and 75 adapted to clamp the plate in its adjusted positions, means for locking the screw and a bearing plate carried by the end of the screw and adapted to move vertically with the screw and plate, substantially as described. 80

2. The combination of a stirrup having a fixed and a movable jaw, a plate carried by said movable jaw, means for adjusting this plate vertically, a horizontally-adjustable bearing-plate, having outwardly-projecting 85 arms engaging said vertically adjustable plate, substantially as described.

3. The combination of a stirrup having a fixed and a movable jaw, a horizontal screw carried by said movable jaw, a bearing plate 90 on the inner end of said screw, this plate being provided with outwardly-extending arms, and means for engaging these arms and guiding them, substantially as described.

4. The combination of a stirrup having a 95 pair of jaws one of which is movable, said movable jaw being vertically slotted, a vertically movable plate clamped to the inner side of said jaw, a screw passed through the slot in the movable jaw and a threaded opening in the plate, a bearing on the inner end 100 of the screw and a nut screwed over the outer

end of the screw and adapted to bear against the outer side of the movable jaw, substantially as described.

5 The combination of a stirrup having a pair of jaws one being movable and vertically slotted, a vertical plate clamped to the inner side of the movable jaw and bifurcated to embrace the main bar of the stirrup, an adjusting-screw passed through the slot in the adjustable jaw and tapped through the adjustable plate, a clamping nut on the screw and

a bearing plate on the inner end of the screw, said bearing plate having outwardly extending arms working in notches in the vertical plate, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses. 15

JOSEPH M. MAURER.

Witnesses:

JOHN M. STOCKDALE,  
GEO. O. JONES.