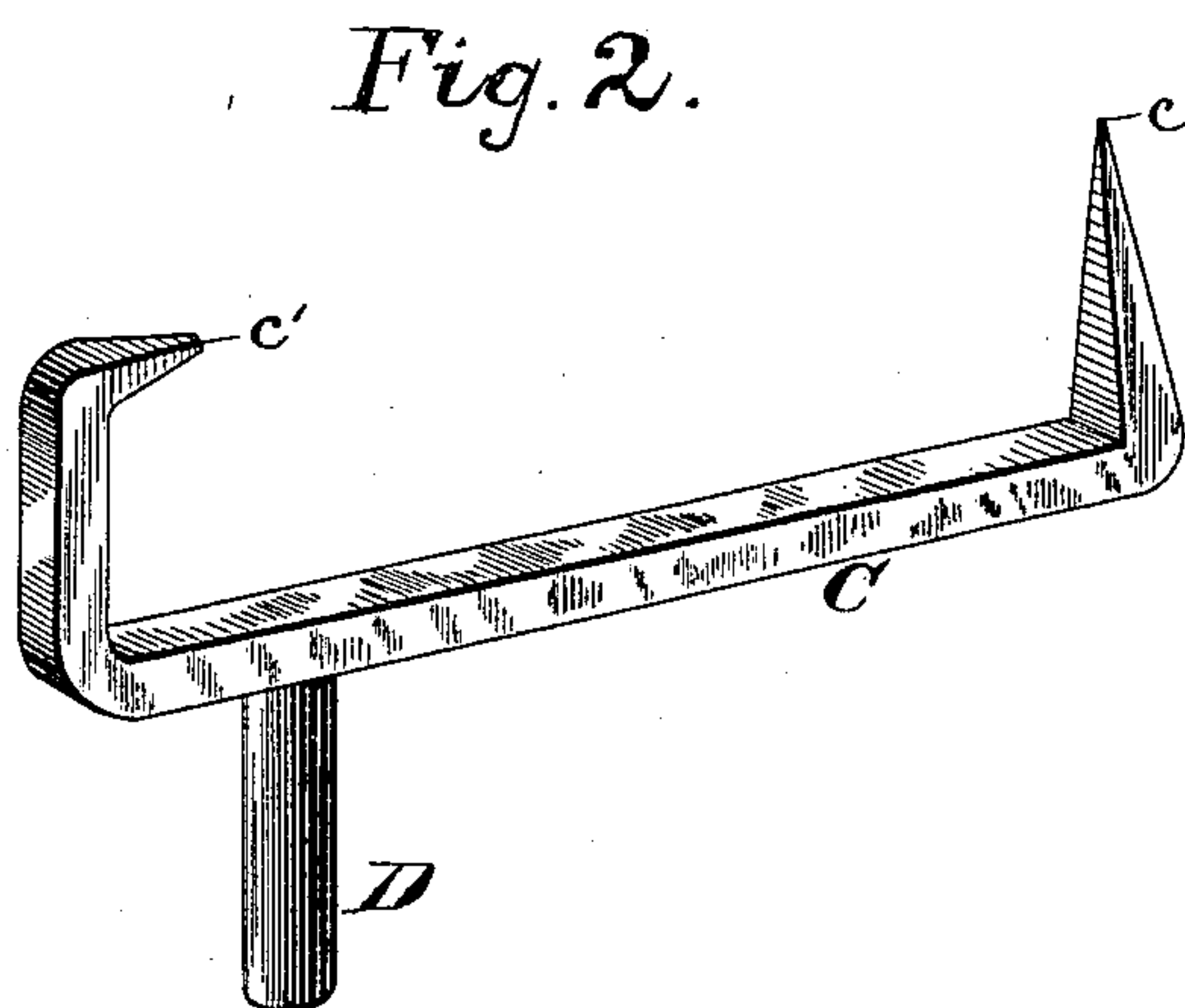
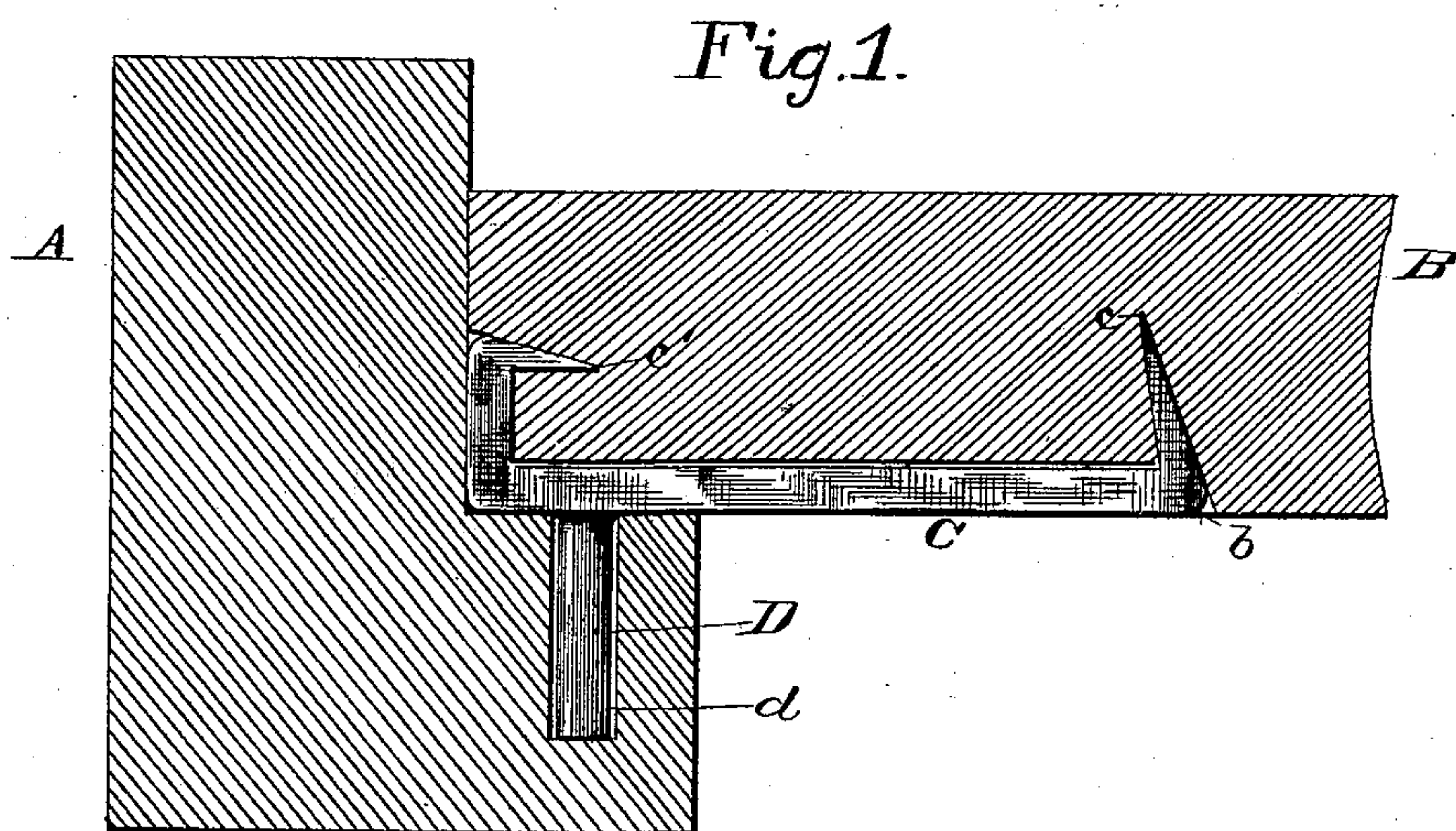


(No Model.)

A. FRANZ.
SLAT FASTENER.

No. 406,438.

Patented July 9, 1889.



Witnesses

Geo. R. Cornwall
L. S. Bacon

Inventor

Andrew Franz,
By his Attorney
Joseph H. Hunter

UNITED STATES PATENT OFFICE.

ANDREW FRANZ, OF CREIGHTON, MISSOURI.

SLAT-FASTENER.

SPECIFICATION forming part of Letters Patent No. 406,438, dated July 9, 1889.

Application filed April 8, 1889. Serial No. 306,356. (No model.)

To all whom it may concern:

Be it known that I, ANDREW FRANZ, a citizen of the United States, residing at Creighton, in the county of Cass and State of Missouri, have invented certain new and useful Improvements in Slat-Fasteners, of which the following is a specification; reference being had therein to the accompanying drawings.

My invention relates to an improvement in slat-fasteners and frame-braces for beds; and it consists in the construction and arrangement of parts hereinafter described, and definitely pointed out in the claims.

The object of my invention is to overcome the objections heretofore existing in slatted bed-bottoms, caused by the warping, shrinking, or irregular lengths of slats, and the springing or warping of the frame or rails, thereby causing the slats to fall out or become displaced.

A still further object of my invention is to provide a simple, strong, and easily-attached device for applying to the ends of slats for adding strength and rigidity to the bed-frame.

I attain these objects by the construction illustrated in the accompanying drawings, wherein like letters of reference indicate corresponding parts in the several views, and in which—

Figure 1 is a sectional view of a slat and frame, the former having my device attached thereto; and Fig. 2 is a detail view in perspective of the fastening device.

In the drawings, A represents the frame of a bedstead having the slat-supporting rail on its lower edge, which has cylindrical holes or sockets *d* formed therein.

The slats, as represented at B, rest on the rails of the frame, and have longitudinal and vertical grooves, as *b*, formed in their under sides and ends, respectively, the former being of greater length than the latter. In these grooves are placed my improved fastener or securing device, which, as shown in Fig. 2, consists of a straight metallic bar C, having its inner end bent up at right angles thereto and formed with an inclined outer face and tapering to a point, as *c*. The outer portion of the bar C is bent up at right angles, its end being bent down parallel with the bar and formed with an inclined upper face and tapering to a point, as *c'*.

On the under side of the bar C, at a point adjacent to its bent outer end, is formed a cylindrical pin D, projecting downwardly and adapted to be fitted in the socket *d* of the rail of the bed-frame.

It will be noticed that in forming the groove *b*, I make it of sufficient depth and size to permit the bar C to rest tightly therein, its outer surfaces coming flush with the side and end of the slat, thus presenting an even and regular resting-surface for the resting end of the slat.

In attaching my fastener to the end of a slat I first force the pointed end *c'* into the wood at the end of the vertical groove, the vertical portion of the outer end of the bar B entering the vertical groove and the horizontal portion partly entering the horizontal groove, the point *c* of the vertical portion of the inner end of the bar resting in the inner end of the horizontal groove. I then force the point *c* into the wood, the inclined outer face of the said vertical portion having a tendency to move the point toward the end of the slat instead of directly in, thereby rigidly holding the device in place and preventing its displacement. When the point *c* is forced into the bar B, the bar C is drawn into the groove and flush with the surface of the slat.

I am aware that many minor changes in the construction and arrangement of the parts of my device can be made and substituted for those shown and described without in the least departing from the nature and principle of my invention.

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

1. The combination, with the rail of a bed-frame having sockets therein, and slats having vertical and longitudinal grooves in their ends and under sides, respectively, of metallic fasteners located in the grooves and formed with upwardly-extending end portions, one of which has its outer end bent down parallel with the main portion of the fastener and a pin on the fastener, substantially as described.

2. A slat-fastener consisting of a metallic strip having its ends bent up at right angles, one of which is also bent down parallel with the main portion, said ends being tapered to a point, and a pin extending out from the un-

der side of the fastener, substantially as described.

3. A slat-fastener consisting of a metallic strip having its end portions bent up at right
5 angles, one of which has its end bent down parallel with the main portion and the other having an inclined outer face, and a pin formed on the under side of the fastener ad-

jacent to its outer end, substantially as described. 10

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

ANDREW FRANZ.

Witnesses:

JOHN B. CREIGHTON,
G. W. UTT.