

(No Model.)

C. L. AMES & A. H. FROST.

ADJUSTABLE CONNECTION FOR WOVEN WIRE BED FRAMES.

No. 255,405.

Patented Mar. 28, 1882.

Fig. 1.

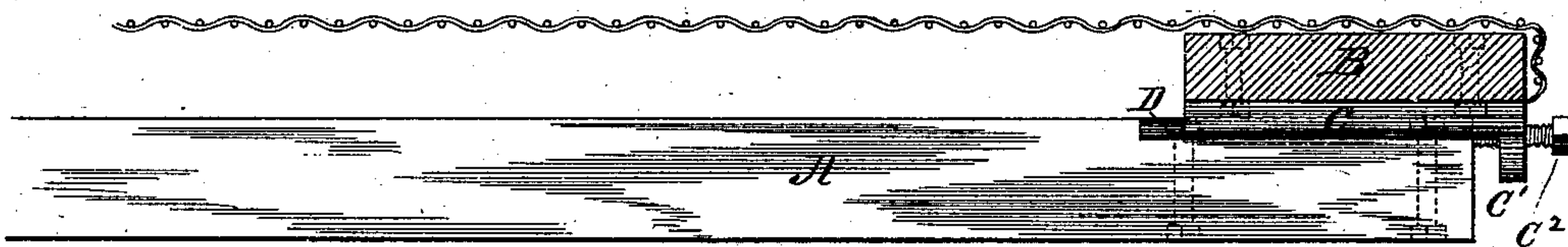


Fig. 2.

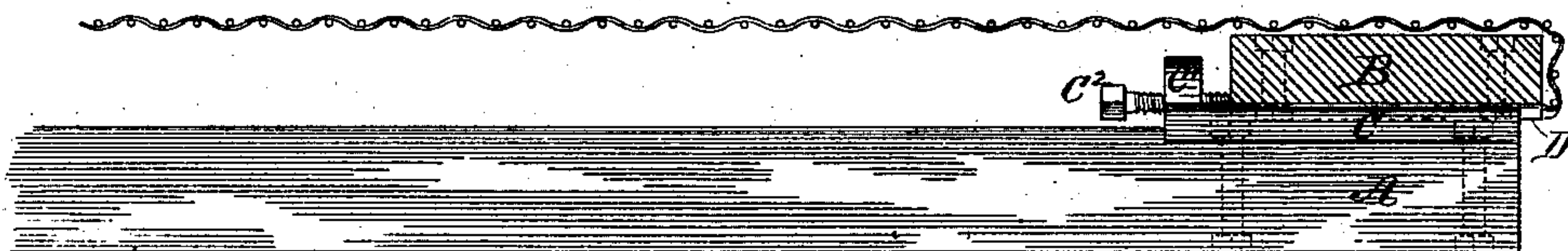


Fig. 4.

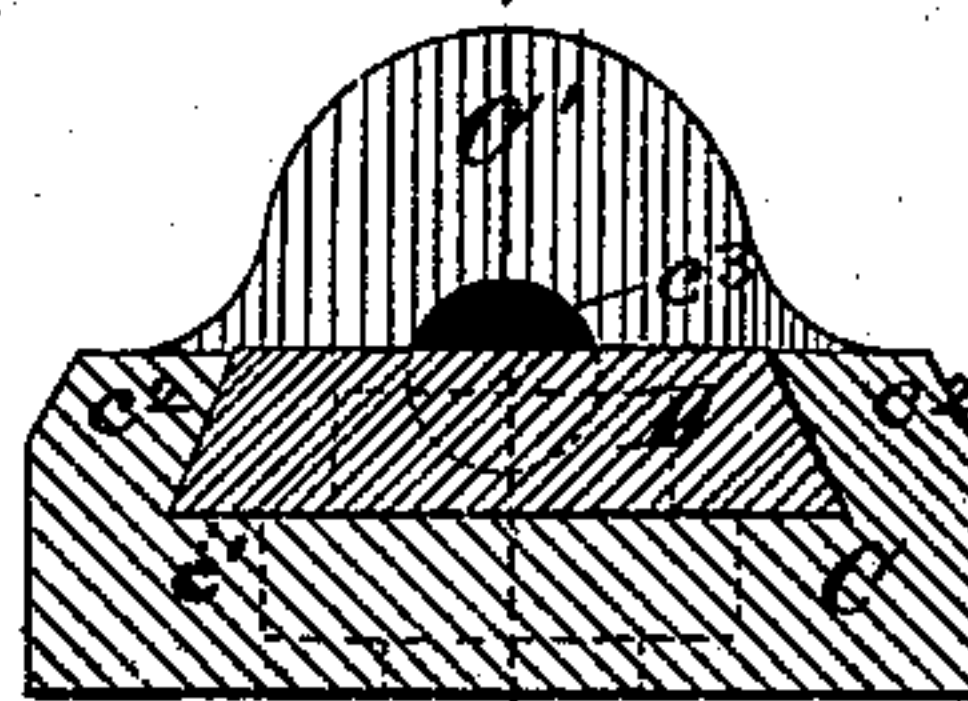
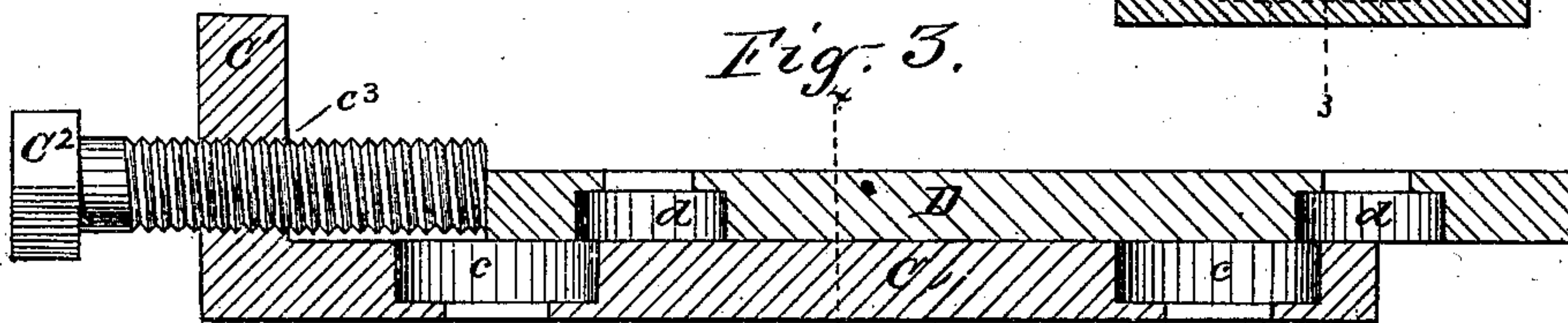


Fig. 3.



WITNESSES

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ADJUSTABLE CONNECTION FOR WOVEN-WIRE BED-FRAMES.

SPECIFICATION forming part of Letters Patent No. 255,405, dated March 28, 1882.

Application filed January 16, 1882. (No model.)

To all whom it may concern:

Be it known that we, CHARLES L. AMES and ABEL H. FROST, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Adjustable Connections for Woven-Wire Bed-Frames; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to devices for adjustably fastening the end bars to the side rails of a woven-wire bed-bottom in which the fabric is supported under tension from the end bars. Its object is to provide a construction in adjustable connections for such bed-frames which shall be more compact, strong, reliable, and easy of adjustment than those heretofore in use; and to this end it consists in the features of construction hereinafter described and claimed.

In the drawings, Figure 1 is a section of a woven-wire bed-bottom transverse to the end rail and near one side rail, showing our improved connecting device with the tension-screw arranged outside the end bar. Fig. 2 is the same view, showing the tension-screw arranged at the inner edge of the end bar. Fig. 3 is a central vertical longitudinal section of the fastening-plates, detached and enlarged, through 3 3 of Fig. 4. Fig. 4 is a transverse section of said plates through 4 4 of Fig. 3.

A is the side rail, and B is the end bar, of the bed-frame.

C and D are the two plates of our improved fastening. The plate C is relatively thick, and is longitudinally recessed at c' , giving side flanges, c^2 , as shown in Fig. 4, to receive nearly the entire thickness of the sectionally dovetail-shaped smaller plate D. At one end the plate C is provided with a strong lug, C' , cast continuous with the flanges c^2 , as well as with the intervening part of the plate, so as to form a

head, which closes one end of the recess c' . This lug is apertured at c^3 and tapped to admit the square-headed screw C^2 as near as practicable to the bottom of the recess c' , so that the end of the screw C' bears against the end of the plate D when lying in said recess, as shown in Fig. 3.

As an essential feature of our invention each of the plates C and D, being of the form indicated, is provided with bolt-holes c or d directly through the body thereof, which holes are countersunk in the meeting faces of the plates, as shown. By this location of the bolts the utmost strength is secured in the fastening without impairing the strength of the plates, and the compactness of the plates is preserved, by which the desirable proximity of the frame-rails, when connected thereby, is obtained.

Either plate may be secured to either part of the bed-frame. Thus in Fig. 1 the heavier plate C is secured to the end bar, B, and the plate D to the side rail, A. In Fig. 2 the plates are reversed in relation to the frame parts, with the effect of bringing the screw C' inside the end bar and over the side rail, A.

By arranging the screw C^2 low down, so as to work in the dovetailed recess c' of the plate C, said screw may directly bear upon the end of the plate D, instead of upon the wood of the rail to which the latter is secured, and thus work more easily and effectively. Moreover, being thus arranged, the head of the screw C^2 is to the utmost practicable degree out of the way when located at the inner face of the end bar, as shown in Fig. 2.

The plates so constructed and arranged do not materially separate or elevate the end rail above the side rail, which in an adjustable connection is a material advantage as respects the strength and rigidity of the frame and permanent tension of the fabric.

The plates C and D will usually be applied in the positions shown in Fig. 1, in which case the lug C' , connecting the opposite flanges c^2 ,

as stated, materially strengthens the plate C against a liability to break under the great strain of the fabric which falls upon said flanges.

We claim as our invention—

5 As an adjustable fastening for bed-frames having the fabric stretched from end to end, the dovetailed plates C and D, having counter-sunk bolt-holes in their meeting faces, and the recessed plate C, having the end lug, C', and
10 screw C², threaded through said lug, and arranged to bear against the end of the plate D, substantially as described.

In testimony that we claim the foregoing as our joint invention we affix our signatures in presence of two witnesses.

CHARLES L. AMES.
ABEL H. FROST.

Witnesses to signature of C. L. Ames:

M. E. DAYTON,
W. C. ADAMS.

Witnesses to signature of A. H. Frost:

D. W. MARSHALL,
A. P. GRANGER.