W. J. MYERS.

BED-BOTTOM FRAMES.

No. 179,812. Patented July 11, 1876.

Fig. 1.

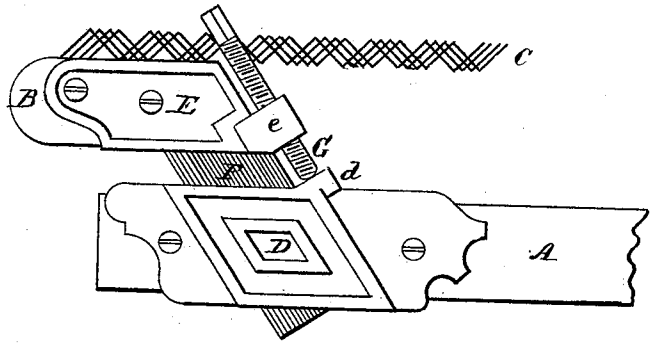


Fig. 2.

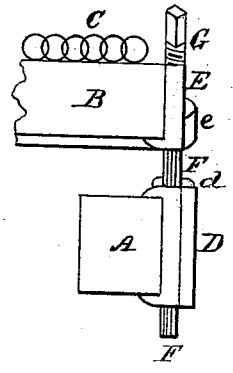
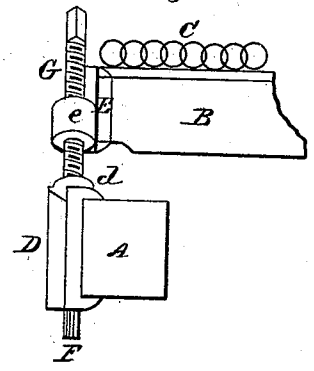


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

WILLIAM J. MYERS, OF HARTFORD, CONNECTICUT.

IMPROVEMENT IN BED-BOTTOM FRAMES.

Specification forming part of Letters Patent No. **179,812**, dated July 11, 1876; application filed March 29, 1876.

To all whom it may concern:

Be it known that I, WILLIAM J. MYERS, of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Frames for Elastic Bed-Bottoms; and I do hereby declare that the following is a full, clear, and exact description thereof, whereby a person skilled in the art can make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Like letters in the figures indicate the same parts.

My invention relates to bed-bottoms composed of an elastic fabric or web stretched upon a rigid frame by being firmly attached to the end bars at the head and foot of the bed. It has for its object the double purpose of raising or lowering the end of the bed, and of stretching or slackening the web.

My invention consists in a device for uniting the end bars to the side bars of the frame at the corners of the bed in such a manner as to permit of an outward and upward adjustment of the end bar.

In the accompanying drawing, Figure 1 is a side view of one corner of the frame. Fig. 2 is an end view of the same corner. Fig. 3 is a view looking outward along the side bar.

A is one of the side bars of the frame. B is one of the end bars. C is the elastic web stretched between the end bars. D is a metallic plate firmly secured to the side bar near the end by means of screws or bolts, or in any other convenient manner. It has an opening or slot through it in an inclined direction, as shown in the drawing. E is a metallic plate firmly attached to the end bar by means of screws or otherwise, and in which the bar usually rests in a socket, to prevent its being drawn out of place by the strain or tension upon the web. This plate E is provided with a long tongue or tenon, F, which fits and slides in the slot or mortise in the plate D. G is a screw-bolt passing through a nut, *e*, forming a projection on the plate E, and resting upon a boss or projection, *d*, upon the plate D. At the upper end of the screw G is the square *g* for turning it by means of a wrench. By turning this screw the end bar B is moved up or down in the line of the tenon F, which tenon is held and guided by the mortise in the plate D.

My invention can be applied either to one or both ends of a bed-frame, and its operation is as follows: If it is desired to raise the head of the bed, or give it a different slope, the end bar is raised by means of the screws G on the corners at the end of the bar. This also stretches and tightens the web. Where my invention is applied to both ends of a bed-frame, the web can be tightened or released without altering its level, by raising or lowering both ends equally, or the slope can be altered and adjusted to any desired inclination, at the same time the tension is regulated, by raising one end to give a slope and increased tension, or lowering the other to give the same slope with less tension. In this manner any desired inclination or tension can be given to the bed by means of my invention.

Other devices besides the screw, such as a rack-and-pinion movement, with a pawl to hold the tenon, may be used to move the slide, but I consider the screw to be preferable. Friction-rollers can also be used to make the slide move more easily, if desired, but they are not necessary, as the adjustments do not require to be made often.

What I claim as my invention is—

1. The frame of a bed-bottom, provided at its corners with inclined slots or mortises, in combination with adjustable supports for the flexible web, said supports being furnished with inclined tenons adapted to be removed in the slots of the frame by screws working in lines parallel with said slots, as and for the pose herein set forth.

2. The combination of the plate D, with its inclined slot, the plate E, with its tenon F, and the screw G, with the end and side bars of a bed-frame, substantially as herein described.

WILLIAM J. MYERS.

Witnesses:

THEO. G. ELLIS,

GEORGE W. NEWTON.