

J. E. WHITTLESEY & J. W. C. PETERS.

Elastic Fabric Mattress Frames.

No. 142,827.

Patented September 16, 1873.

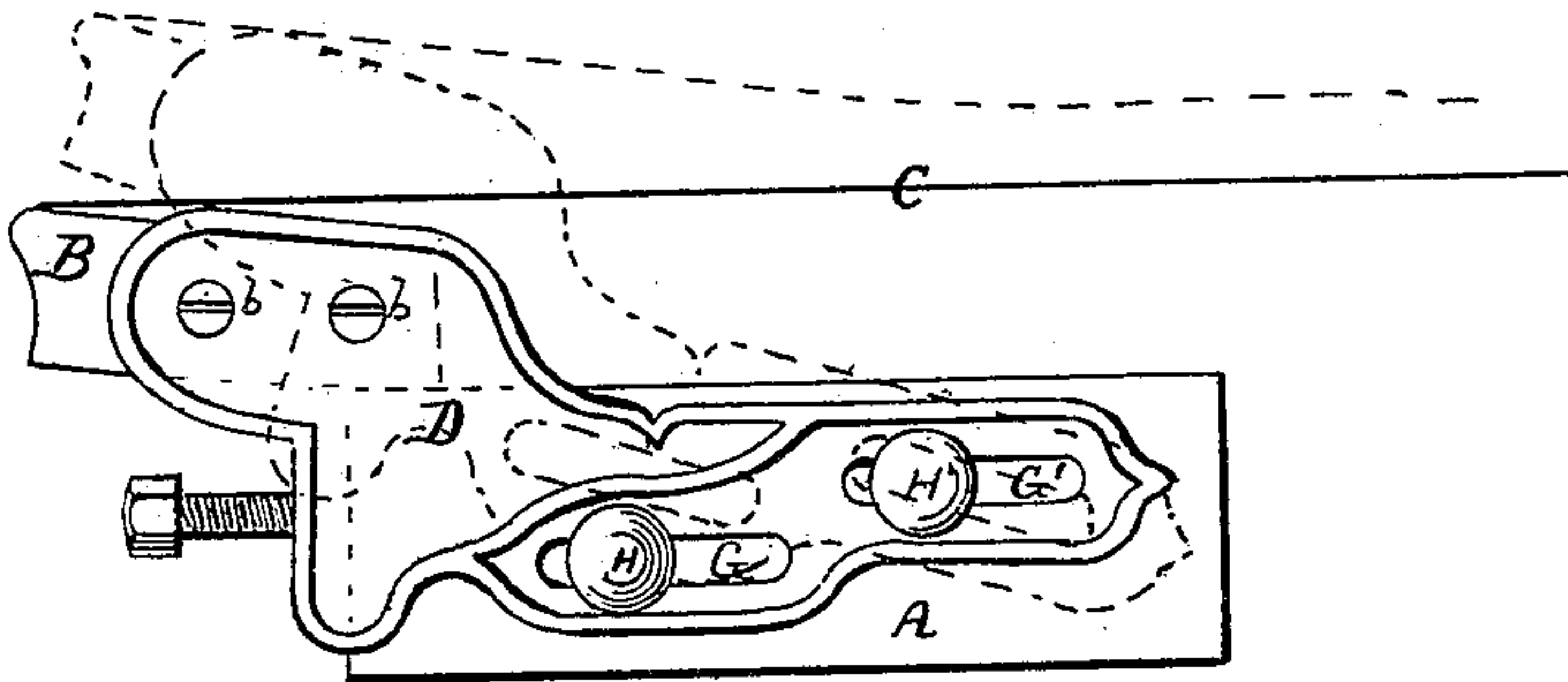


Fig. 1.

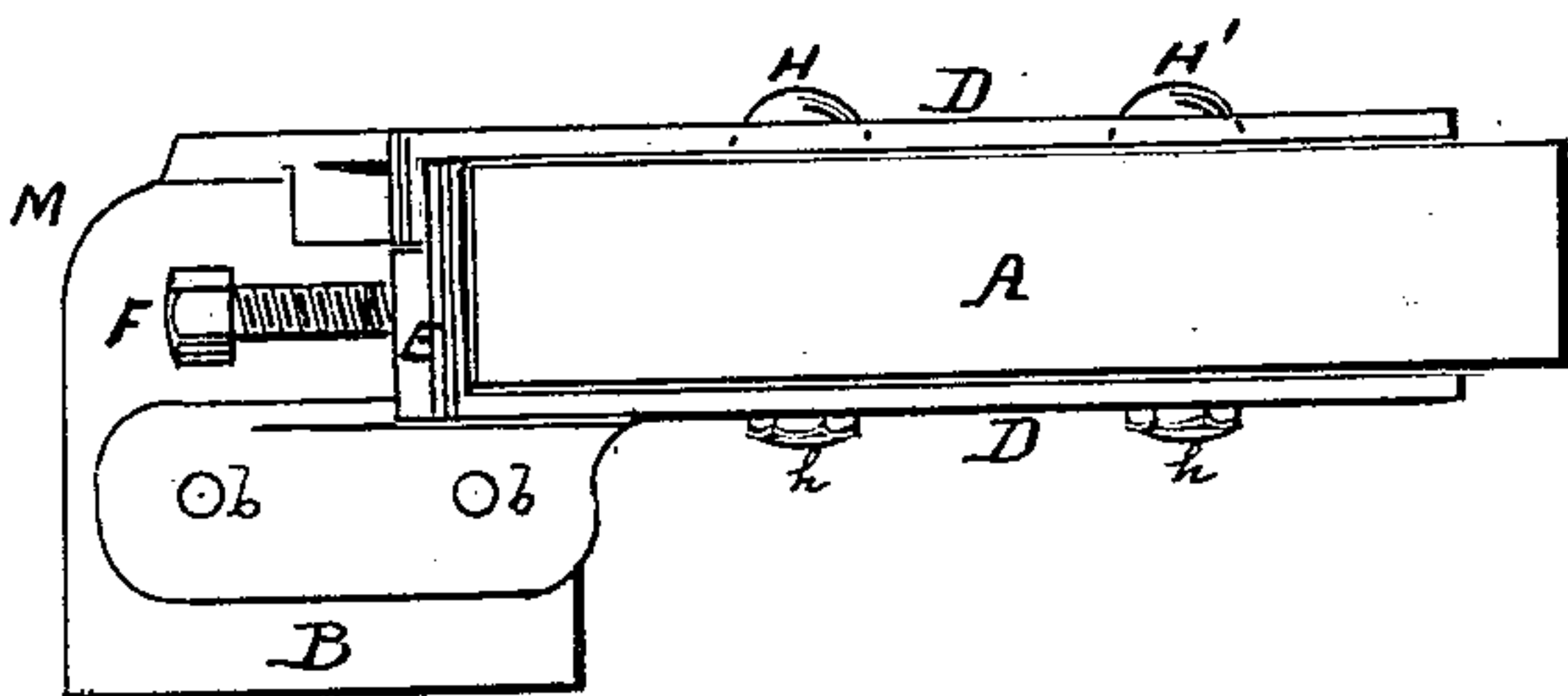


Fig. 2.

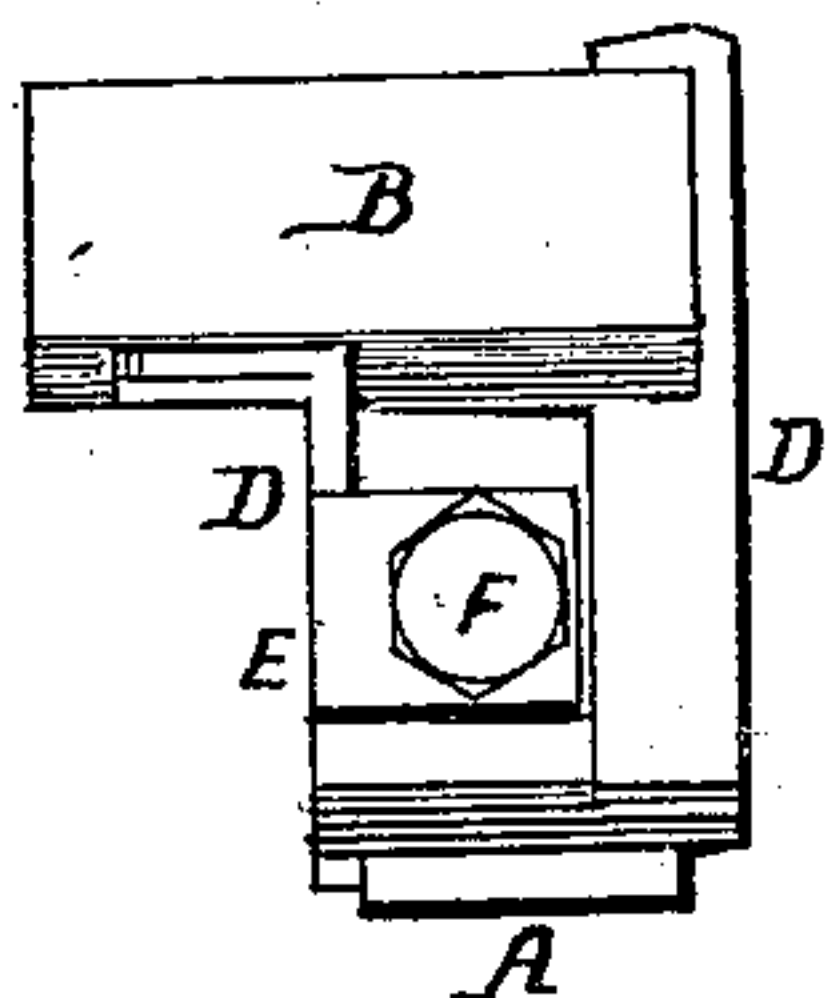


Fig. 3.

Witnesses:

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Inventor:

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UNITED STATES PATENT OFFICE.

JOHN E. WHITTLESEY AND J. WILLIAM C. PETERS, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN ELASTIC-FABRIC MATTRESS-FRAMES.

Specification forming part of Letters Patent No. **142,827**, dated September 16, 1873; application filed April 4, 1873.

To all whom it may concern:

Be it known that we, JOHN E. WHITTLESEY and J. WILLIAM C. PETERS, of Chicago, in the county of Cook and State of Illinois, have invented certain Improvements in Elastic-Fabric Mattress-Frames, of which the following is a specification:

This invention relates to certain improvements in the means for stretching the woven-wire web or its equivalent in mattresses; and the invention consists, particularly, in combination with the end and side rails of the mattress-frame, of metallic plates attached rigidly to the end rail, and clasping the sides of the side rails, but having no flanges at the top or bottom.

Said plates are made with horizontal slots, through which two bolts are passed to clamp them laterally against the side rails, and which said plates are furnished with set-screws, setting against the ends of the side rails, to adjust the end rails with and vary the tension of the fabric.

In applying the web or fabric to the frame one of the clamping-bolts is removed from its slot, and the metallic plates, with the end rail attached, are lifted upon the other bolt as upon a pivot. The web or fabric is then applied to the end rail and said end rail pressed down to place, whereby the greater portion of the slack is taken up. The other bolt is then inserted, the remainder of the slack of the web or fabric being then easily taken up by the set-screws before the clamping-bolts are tightened.

By this construction of plates there is combined the advantage of rapidly taking up the slack at the start by a pivoted clamp, with the facility of a further adjustability by means of the set-screws or other means.

In the accompanying drawing, which forms a part of this specification, Figure 1 is a side elevation of this invention attached to a portion of the frame. Fig. 2 is a bottom view of the same, and Fig. 3 is an end view thereof taken from the left of Fig. 1.

Like letters of reference made use of in the several figures indicate like parts.

To enable those skilled in the art to make

and use this invention, we will proceed to describe the same with particularity, making use in so doing of the aforesaid drawings by letters of reference thereto.

In the said drawings, A represents one of the side rails of a common woven-wire mattress-frame, and B is the adjustable end rail, to which is attached the web of wire or other fabric, indicated by the line C in Fig. 1. D D are metallic plates, setting flat against both sides of the side rail A, and attached to the end rail B by screws or rivets *b*, or otherwise. These plates D, or one of them, are continued across the end to form an end plate, E, through which screws the set-screw F, bearing against the end of the side rail A. The plates D D are each provided with two horizontal slots, G' G'', one placed above and behind the other. H H' are bolts passing through the slots G' G'' and through the rail A, being secured by nuts *h h*, serving to clamp the plates D against the rail.

When the elastic woven-wire webbing C or other fabric is to be applied, the bolt H is removed, leaving the bolt H' to act as a pivot. The end rail is then lifted, lifting with it the plates, as is indicated by dotted lines at Fig. 1 of the drawing, the whole rising upon the bolt H' as a pivot. The webbing or other fabric is then applied and secured to the end rail, which is then brought down to its proper place, straining the webbing, in so doing, enough to take out all the slack. The bolt H is now inserted and the set-screw F brought in play to complete the straining. The nuts *h h* are then tightened and set, and the operation is complete.

If, in course of use, the web or other fabric becomes slack, or a different degree of tension is desired, it may be adjusted by the set-screws F at any time.

The outer plate of each pair is attached to the end rail at the end, not extending so far out as the attachment of the inner plate to the said rail, so that the corners of the end rail may be cut away or rounded, as at M, to fit round-cornered bedsteads. An elastic surface extending the whole length of the bed is thus obtained.

After having thus fully described the construction and operation of the invention, that which we deem new, and desire to secure by Letters Patent, is—

1. The combination of the end plate E, furnished with the set-screw F, the side plates D, made with slots G G', the bolts H H', and rails A B, substantially as specified.

2. The combination of the flat side plates D, made with slots G G', the bolts H H', and rails A B, substantially as specified.

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Witnesses:

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