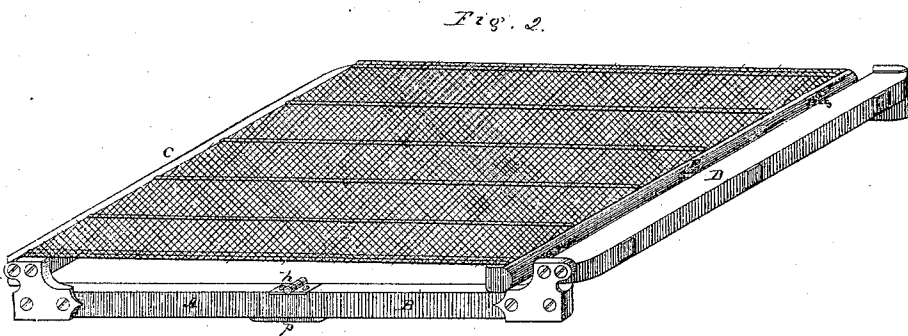
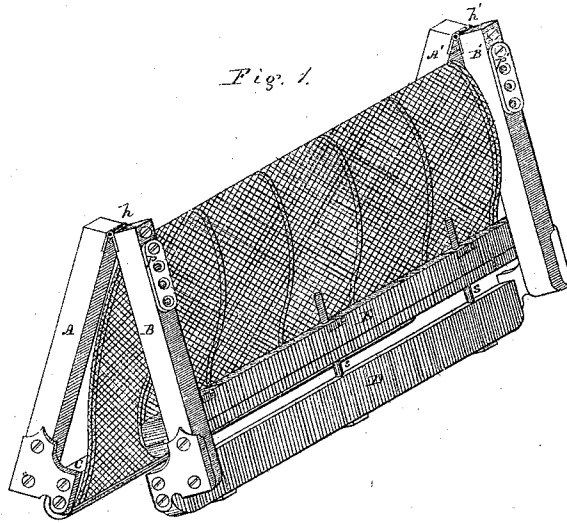


G. C. PERKINS.

Improvement in Frames for Woven Wire-Mattresses.

No. 131,968.

Patented Oct. 8, 1872.



Witnesses.

Ben. Moore.
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UNITED STATES PATENT OFFICE.

GEORGE C. PERKINS, OF HARTFORD, CONNECTICUT.

IMPROVEMENT IN FRAMES FOR WOVEN-WIRE MATTRESSES.

Specification forming part of Letters Patent No. 131,968, dated October 8, 1872.

To all whom it may concern:

Be it known that I, GEORGE C. PERKINS, of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Frames for Woven-Wire Mattresses; 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 drawing and to the letters of reference marked thereon.

Like letters in the figures indicate the same parts.

My invention consists in the adaptation of a folding frame to woven-wire mattresses, or other similar fabrics used for the purpose of forming bed-bottoms, which require a high degree of tension when in use, and which have heretofore been stretched upon rigid frames. This is done by combining a relaxing and straining mechanism with a folding frame and with a device for maintaining the rigidity of the frame when in use and the fabric is properly strained. The object of my invention is to provide a more portable frame than the rigid ones heretofore made use of, and at the same time possessing the requisite stiffness when extended.

In the accompanying drawing, Figure 1 represents the frame folded for transportation, and Fig. 2 represents the same extended and the mattress stretched ready for use.

A B A' B' are the jointed side rails of the frame. C and D are the head and foot cross-bars, connected by cast-metal corners to the sides in the usual manner. E is a movable bar to which the webbing is attached, and which is connected with the cross-bar D by screw-bolts *s s*. These bolts have heads which can be turned with a wrench and pass

through nuts in the bar E. This arrangement permits a movement of the bar E when the screws are turned, so as to slacken or tighten the web or spring fabric of which the bed is formed. *h h'* are the hinges on which the side bars fold. *p p'* are plates which are firmly screwed over the joint when the frame is extended, and give it the stiffness necessary to support the strain from the wire fabric. When the frame is folded the screws on one part of the frame are withdrawn and the plate turned, as shown in Fig. 1.

The operation of my invention is as follows: When the frame is folded, to extend it for use it is first unfolded. The plates *p p'* are then screwed firmly in their places, as in Fig. 2. The screws *s* are then turned so as to tighten the wire fabric forming the bed-bottom to the required degree of tension. To again fold the frame, the screws *s* are loosened to relax the tension, the plates *p p'* are removed from one side of the joint, as in Fig. 1, and the whole is doubled up, as shown.

I do not limit my invention to the exact locking device shown in the drawing at *p p'*; but any ordinary method of securely attaching the two parts A and B may be used—as, for instance, a hook of suitable construction or a dovetailed cleat embracing dovetailed castings screwed or attached to A and B—in fact, any method which would be the mechanical equivalent of the plate *p*.

What I claim as my invention is—

The combination of the jointed frame A B A' B' with the extending device D E and a locking device *p p'*, substantially as and for the purpose described.

GEORGE C. PERKINS.

Witnesses:

THEO. G. ELLIS,
BEN. A. COOKE.