(No Model.)

J. L. STAIR.

BEDSTEAD.

No. 346,622. Patented Aug. 3, 1886.

Fig. 1.

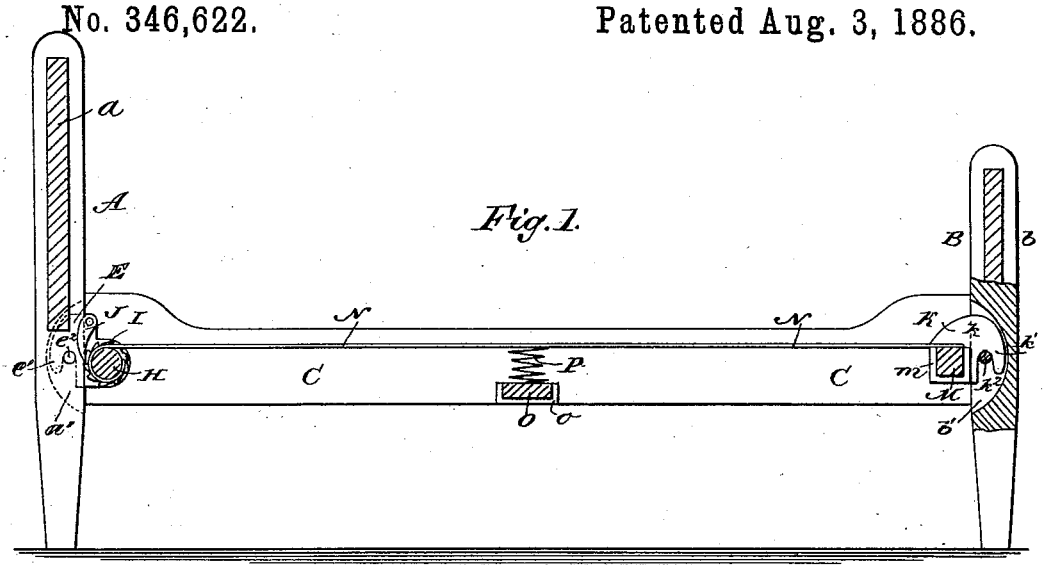


Fig. 2.

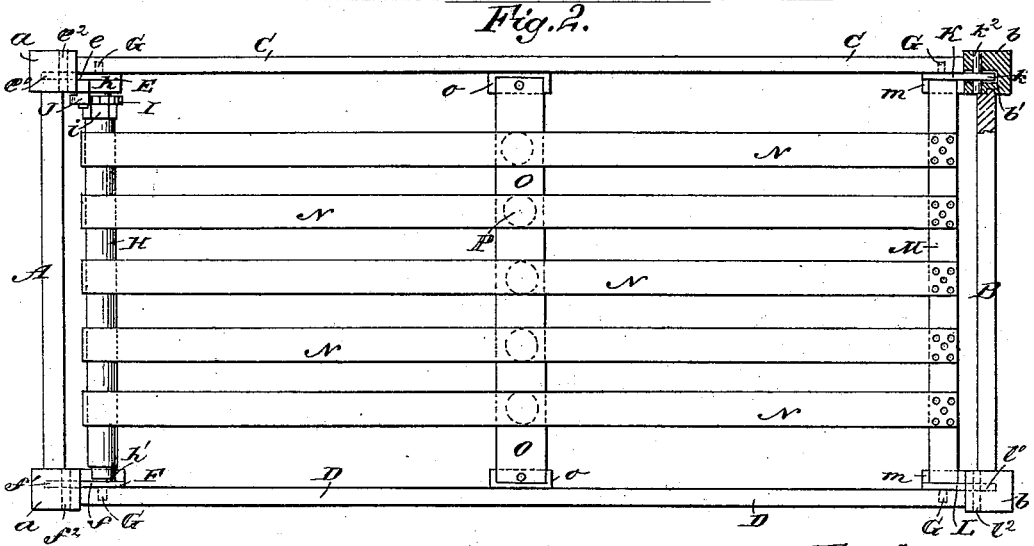


Fig. 3.

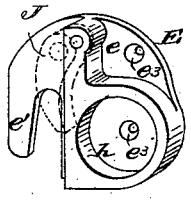


Fig. 4.

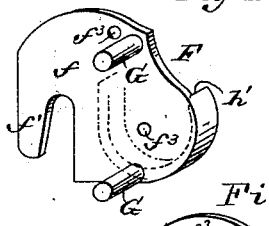


Fig. 5.

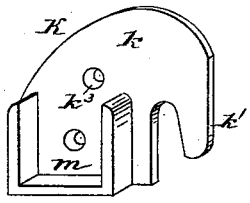
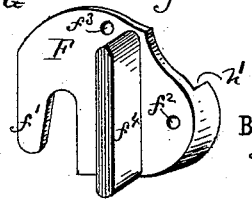


Fig. 6.



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JACOB L. STAIR, OF ALTAMONT, ILLINOIS.

BEDSTEAD.

SPECIFICATION forming part of Letters Patent No. 346,622, dated August 3, 1886.

Application filed March 9, 1886. Serial No. 194,566. (No model.)

To all whom it may concern:

Be it known that I, JACOB L. STAIR, of Altamont, in the county of Effingham and State of Illinois, have invented a new and useful Improvement in Bedsteads, of which the following is a full, clear, and exact description.

My invention relates to bedsteads, more particularly of that class in which a flexible bed-bottom made of webbing or woven wire is used, and wherein provision is made by a roller for tightening up the bed-bottom as it sags by use.

The invention has for its principal object to provide simple inexpensive irons or fastenings adapted to support the roller and opposite cross-bar of the flexible bed-bottom, and designed for quick and easy connection to the side rails and corner-posts of the bedstead.

The invention consists in certain novel features of construction and combinations of parts of the bedstead and its fastening-irons, all as hereinafter fully described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a vertical longitudinal sectional elevation of a bedstead embodying my improvements. Fig. 2 is a plan view thereof, partly broken away and in section. Fig. 3 is a front perspective view of one of the bed-fastening irons, in which the bed-bottom tightening-roller is journaled at the head of the bed. Fig. 4 is a rear perspective view of the opposite iron carrying said roller; and Fig. 5 is a front perspective view of one of the fastening-irons which carries the square foot-bar, to which one end of the bed-bottom is attached. Fig. 6 is a modification.

The head-board A, foot-board B, and opposite side rails, C D, of the bedstead may have any approved size or design.

To the inner faces of the side rails, C D, next the posts *a a* of head-board A, are fixed the irons E F, each of which is formed with a base-plate, as at *e* and *f*, and with a hook, as at *e'* and *f'*, adapted to engage the pins e^2 f^2, respectively, when the hooks are passed into slots *a'* in the posts *a*, which slots are crossed by the pins. The back faces of the base-plates *e f* each are provided with pins or studs G, (see Fig. 4,) which enter holes in the side rails, C D, and screws passed through the holes e^3 f^3 of plates *e f* bind the irons E F to the side rails, the weight on the bed being sustained by the studs G, so that little or no strain comes upon the screws.

At the outer face of the iron E there is formed a journal-bearing, *h*, to receive one end of a roller, H, the other end of which is supported in the bearing *h'* on the opposite iron, F, and the roller has a ratchet wheel or rim I, with which a pawl, J, pivoted to the iron E, is adapted to engage, and to the metal ratchet I there is fixed a polygonal collar, *i*, to which a wrench may be applied.

To the inner faces of the side rails, C D, next the posts *b b* of the foot-board B, there are fixed the irons K L, respectively, which are formed with base-plates *k l*, having hooks *k' l'* entering slots *b'* in the bed-posts *b* and engaging pins k^2 l^2 crossing said slots, and the plates *k l* also have pins G, entering holes in the side rails to which the irons will be held by screws passed through holes, as at k^3, into the rails, substantially as above described for the head-irons E F. Each of the irons K L is provided with a squared or angular socket, as at *m*, to receive one end of a foot-bar, M, which thus is held against rotation in the opposite irons, K L, and so as to be immovable lengthwise of the bed.

To the head-roller H and foot-bar M are fixed the opposite ends of the webbing N—or it may be woven wire—which forms the bottom to support the bedding, and under the center of the webbing N there is held in irons *o o*, fixed to the opposite side rails, C D, the cross-slat *o*, to which are held the springs P, on which the webbing is supported, where it receives the greatest weight in use.

The irons E F K L having been fixed to the side rails, C D, it is obvious that when the foot-bar M is placed in irons K L, and the roller H is adjusted in the irons E F, and a wrench is applied to the collar *i* of the roller, the webbing or bottom N may be wound on the roller more or less to put it in tension, and the pawl and ratchet J I will hold it tightly stretched, and any subsequent slackness of the bottom due to use may be taken up in like manner.

By forming the fastening-irons of the bedstead with the pins or studs G, and attaching the irons to the side rails, and providing sockets on or in the irons to receive the roller H and bar M of the bed-bottom, a very strong and effective support is given to the bed-bottom from the side rails, and by forming the irons with hooked flange portions entering vertical slots of the bed-posts to engage the supporting-pins therein, sidewise wabbling or springing of the side rails will be prevented. Furthermore, the entire fastening-iron is formed in one piece, which may be very cheaply made and applied to the side rail, and will allow the quick and easy setting up or taking down of the bedstead.

It is obvious that a long lug, f', as shown in Fig. 6, may be formed on the backs of the irons E F K L, instead of the pins G, and will be the mechanical equivalent of the pins.

I am aware that a bedstead-fastening composed of two parts connected together and to the posts and rails of a bedstead by tongues having enlarged and rounded ends fitting in correspondingly-shaped grooves is old; and I am also aware that a plate having a socket to receive a cross-bar, and a hook formed on its forward edge and secured to the rails, so as to engage a pin in a mortise of the post, is likewise old, and I therefore do not claim such inventions.

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

1. As an improved article of manufacture, a bedstead fastening consisting of a base-plate provided with a hook on its forward end, a socket on one face, pins projecting from its opposite face, and apertures to receive fastening-screws, as set forth.

2. The combination, with a bedstead and a flexible bed-bottom provided with a roller carrying a ratchet-wheel, of the irons E F secured to the side rails, the said irons being formed with the hooks $e' f''$, the sockets $h h'$, pins G, the apertures $e^3 f^3$, and the iron E, provided with the pivoted pawl J, substantially as herein shown and described.

JACOB L. STAIR.

Witnesses:
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GEORGE W. SCHILLING.