No. 678,092. Patented July 9, 1901.

E. C. BAYNES.

METALLIC BEDSTEAD.

(Application filed Dec. 29, 1900.)

(No Model.)

Fig. 1.

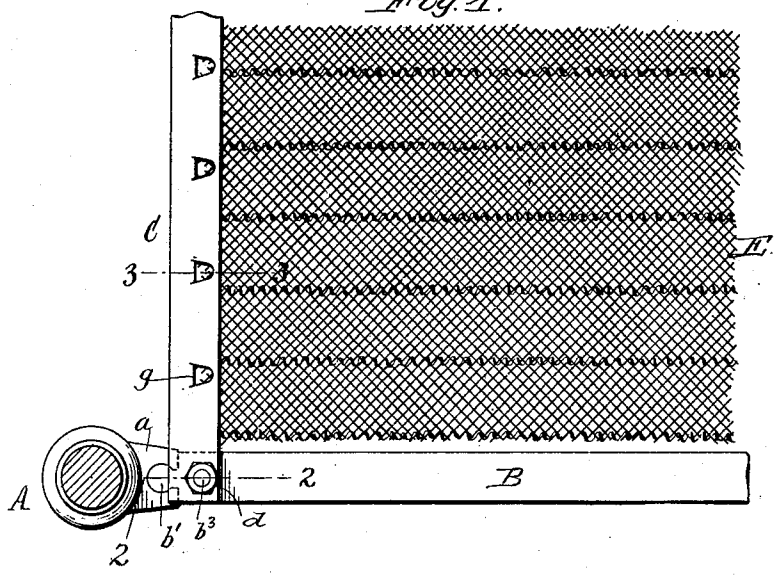


Fig. 2.

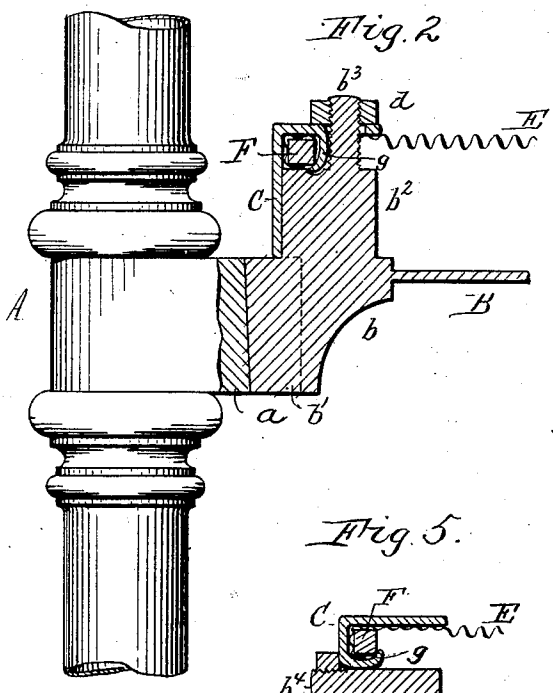


Fig. 3.

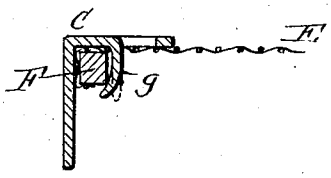


Fig. 4.

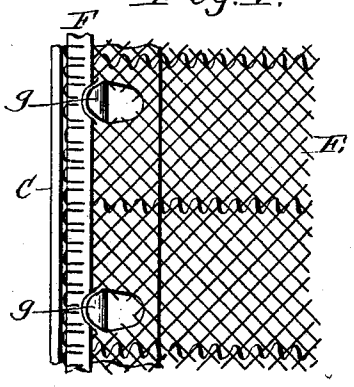
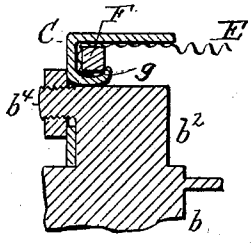


Fig. 5.



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UNITED STATES PATENT OFFICE.

EDWARD C. BAYNES, OF BUFFALO, NEW YORK, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE EMPIRE METALLIC BEDSTEAD COMPANY, OF SAME PLACE.

METALLIC BEDSTEAD.

SPECIFICATION forming part of Letters Patent No. 678,092, dated July 9, 1901.

Application filed December 29, 1900. Serial No. 41,514. (No model.)

To all whom it may concern:

Be it known that I, EDWARD C. BAYNES, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented new and useful Improvements in Metallic Bedsteads, of which the following is a specification.

This invention relates more particularly to metallic bedsteads which are provided with a mattress of woven wire.

The objects of my invention are to simplify and cheapen the fastenings by which the ends of the woven-wire mattress are secured to the end rails of the bedstead and by which the side and end rails are connected together and to dispense with the use of wood throughout the construction of the bedstead.

In the accompanying drawings, Figure 1 is a sectional top plan view of a portion of a metallic bedstead provided with my improvement. Fig. 2 is a vertical longitudinal section, on an enlarged scale, in line 2 2, Fig. 1. Fig. 3 is an enlarged transverse section in line 3 3, Fig. 1. Fig. 4 is a fragmentary bottom plan view of the mattress and the end rail. Fig. 5 is a transverse section of the end rail, showing a modified arrangement of the fastening-lips and the screw-stem.

Like letters of reference refer to like parts in the several figures.

A is one of the posts or pillars of the bedstead, having the usual grooved or socketed lug *a*, and B is the adjacent side rail, provided at its end with a head *b*, having the usual tenon *b'*, which interlocks with the socket of the lug *a*.

C is the end rail of the bedstead, which consists of a bar of angle-iron having its upper flange arranged horizontally and so as to face inwardly. This end rail extends across the top of the side rail, and its vertical flange rests upon the upper side of the pillar-lug *a*. The head *b* of the side rail is provided on its upper side with a boss b^2, terminating in a vertical screw-stem b^3, which passes through an opening formed in the upper horizontal flange of the end rail C.

d is a clamping-nut applied to said screw-stem and bearing upon the upper flange of the end rail. By this construction the vertical flange of the end rail is tightly clamped against the pillar-lug *a* and said rail is at the same time firmly secured to the side rail B.

E is the woven-wire mattress, which is stretched between the end rails C. Each end portion of the mattress is secured to the adjacent end rail by a transverse clamping bar or cleat F, around which the end of the mattress is bent or wound and which is confined in the angle of the end rail by lips or spurs *g*, formed on said rail. In the preferred construction (shown in Figs. 1 to 4) these lips are arranged on the upper flanges of the end rail and formed by punching three-sided or U-shaped openings in the flange at a suitable distance from the vertical flange of the rail and bending the tongues of metal so formed downwardly at right angles to the horizontal flange, as shown by dotted lines in Fig. 3. After punching and bending the lips in this manner the end of the mattress is bent around the upper and rear sides of the cleat F, the cleat is placed in the angle of the end rail on the inner side of the lips *g*, which latter penetrate the meshes of the woven wire, and the lips are then clenched around the under side of the cleat, as shown in Figs. 2 and 4 and by full lines in Fig. 3, thereby firmly securing the cleat to the end rail and clamping the mattress between these parts. The opening by which the lip *g* at each end of the end rail is formed is arranged to receive the adjacent screw-stem b^3, and the upper end of the boss b^2 is recessed to make room for the lower end of said lip, as shown in Fig. 2. If desired, the fastening-lips of the cleat F may be formed on the lower or vertical flange of the end rail, as shown in Fig. 5, in which case the lips extend inwardly from said flange and are clenched around the inner side of the cleat, or such lips may be arranged alternately on the upper and lower flanges of the end rails. In each of these constructions the rough or unbound edges at the ends of the mattress are concealed by the flanges of the end rails, producing a neat and sightly fastening. Instead of arranging the screw-stem b^3 vertically, as shown in Figs. 1 and 2, it may be arranged horizontally on the rear side of the boss b^2 and passed through

the vertical flange of the end rail, as shown at b^4 in Fig. 5.

In the construction shown in the drawings each end rail C serves the double function of a connecting-rail for the side rails of the bedstead and a supporting-rail for the end of the woven-wire spring or mattress; but it is obvious that the bedstead may be provided in addition to these end rails with the usual end rails or frames, which are secured to the pillars of the bedstead or to the ends of the side rails.

While I have herein shown and described my improvement in connection with a woven-wire mattress, it is obvious that the same is applicable to bedsteads having a mattress of canvas or other flexible material.

I claim as my invention—

1. The combination with side bedstead-rails, of a transverse supporting bedstead-rail secured to said side rails and provided on its inner side with integral fastening-lips, of a cleat which is arranged on the inner side of said rail and embraced by said lips, and a flexible mattress having its end portion confined between said cleat and said rail, substantially as set forth.

2. The combination with side bedstead-rails, of a transverse supporting bedstead-rail constructed of angle-iron and having its upper horizontal flange provided on its under side with depending lips punched from the metal of the flange, of a cleat secured in the angle of said rail by said lips, and a flexible mattress having its end bent around said cleat and confined between the cleat and the opposing flanges of said rail, substantially as set forth.

3. In a metallic bedstead, the combination of a side rail having an end head provided with a projecting screw-stem, an end rail provided with lips punched from the metal thereof and providing openings therein, said screw-stem projecting through one of said openings in the end rail, a flexible mattress secured to said end rail by said lips, and a clamping-nut applied to said screw-stem for securing the end and side rails together, substantially as set forth.

Witness my hand this 21st day of December, 1900.

EDWARD C. BAYNES.

Witnesses:
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