No. 746,211. PATENTED DEC. 8, 1903.

A. N. WEBB.

BED SLAT FASTENER.

APPLICATION FILED APR. 17, 1903.

NO MODEL.

Fig. 1.

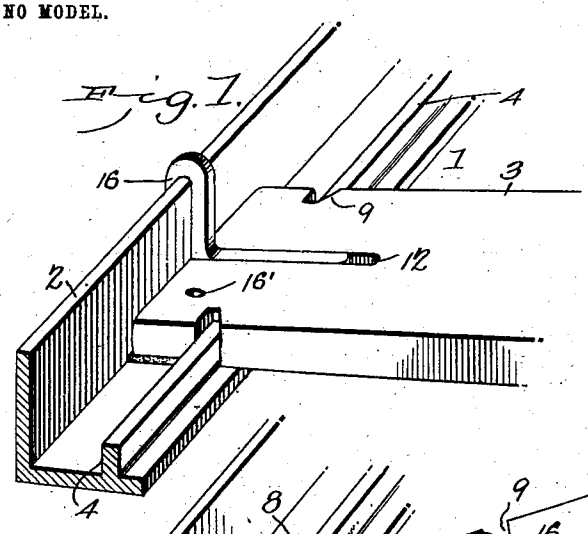


Fig. 7.

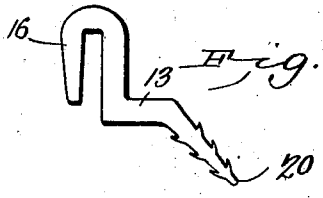


Fig. 6.

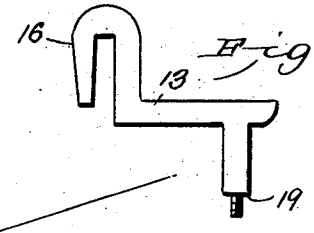


Fig. 2.

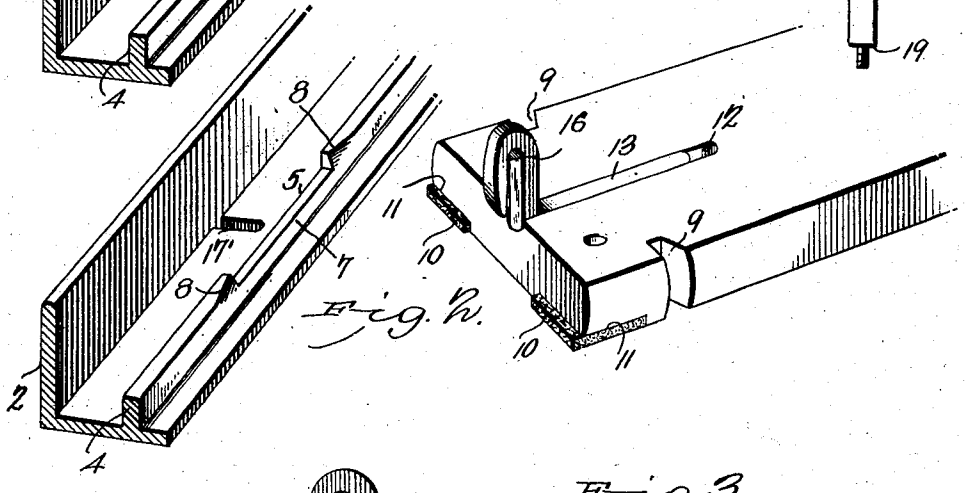


Fig. 3.

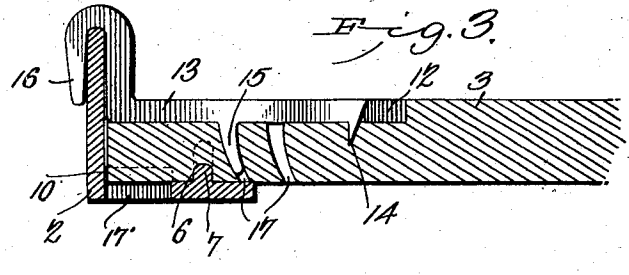


Fig. 4.

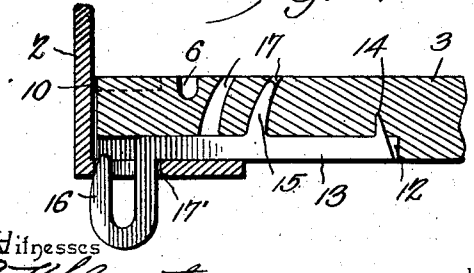
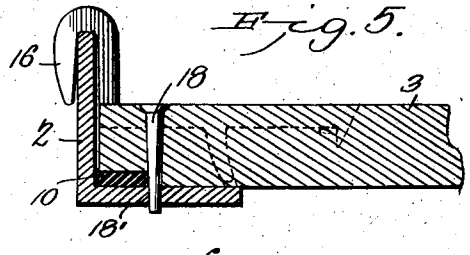


Fig. 5.



Witnesses

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No. 746,211. Patented December 8, 1903.

UNITED STATES PATENT OFFICE.

ARTHUR N. WEBB, OF YOUNGSVILLE, PENNSYLVANIA.

BED-SLAT FASTENER.

SPECIFICATION forming part of Letters Patent No. 746,211, dated December 8, 1903.

Application filed April 17, 1903. Serial No. 153,097. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR N. WEBB, a citizen of the United States, residing at Youngsville, in the county of Warren and State of Pennsylvania, have invented a new and useful Bed-Slat Fastener, of which the following is a specification.

This invention relates to certain improvements in beds, and more particularly to a novel form of slat hanger or fastener especially designed for use on metallic beds.

The invention has for its object to provide a simple, inexpensive, and efficient device of this character by means of which the slats are supported in position on the side rails and effectively prevented from moving laterally or longitudinally thereon.

A further object of the invention is to provide the slats with a novel form of supporting-hook adapted to engage the top of the rail, effectively bracing the same and preventing the rails from spreading, the bottom of the slats being provided with a locking-groove adapted to engage a corresponding rib secured to the bottom of the side rails, spacing said slats the proper distance apart and also preventing the same from moving longitudinally on the rails.

A further object of the invention is to provide the slats and rails with interlocking members and to interpose a packing between the slats and the rails, so as to cause the slats to fit snugly on the side rails, thereby preventing the slats from wabbling and rendering the introduction and removal of the same practically noiseless.

A still further object is to provide a slat and fastening which may be readily reversed, so as to fit any style of side rail, and which will in all cases prevent the slat from being accidentally displaced.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

In the accompanying drawings, Figure 1 is a perspective view of a portion of a bed, showing my improved slat-hanger applied thereto and in position on the side rail. Fig. 2 is a similar view showing the parts detached. Fig. 3 is a longitudinal sectional view of Fig. 1. Fig. 4 is a longitudinal sectional view showing the slat reversed and applied to a different form of side rail. Fig. 5 is a longitudinal section illustrating a modified form of fastening; and Figs. 6 and 7 are side elevations, respectively, of modified forms of hangers.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a portion of a metallic bed, 2 the side rails, and 3 the slats. The side rail 2, which may be of the usual form and construction, is preferably formed of angle-iron, as shown, and provided with a longitudinally-extending locking rib or flange 4, secured to or formed integral with the bottom of the rail. The rib or flange 4 is provided with a series of openings or recesses 5, adapted to receive the ends of the slats and which serve to space the same the proper distance apart on the side rails. The bottom of the slat is provided at a point adjacent its end with a transversely-disposed groove or opening 6, adapted to receive the tongue 7 formed by the recess 5 in the flange 4, the inclined or beveled shoulders 8 of said recess fitting in corresponding recesses 9 in the sides of the slat, thereby securely locking the slat in position on the side rails and preventing any lateral movement thereof. As a means for preventing rattling of the slats and also to cause the slats to fit snugly in their seats on the side rails, I provide cushions 10, formed of rubber or other suitable material, which fit in recesses 11 in the bottom of each slat, the ends thereof projecting slightly beyond the end of the slat, so as to engage the side rail as the slat is introduced in the opening or recess 5.

Fastened in a longitudinal groove or channel 12 in the end of the slat is a hanger 13, which may be formed of cast metal, wire, or other suitable material, one end of which is provided with an inwardly-extending spur 14 and a depending tongue 15, which passes through the slat and may be clenched or

otherwise secured thereto, the opposite end of the hanger being provided with an upwardly-projecting overhanging hook 16, adapted to engage the top edge of the side rail, as clearly shown in Fig. 1 of the drawings. The slot 12 in the end of the slat is made somewhat longer than the hanger, so as to permit the hanger to be adjusted longitudinally therein when the slat is reversed, so as to adapt it to smooth side rails, one or more openings 17 being formed in the slot and communicating with the groove or channel adapted to receive the tongue 15, as will be more fully explained hereinafter. The slat is also provided with an opening 16′, located a little to one side of the hanger 13 and adapted to receive a locking-pin 18, (shown in Fig. 5 of the drawings,) used for coupling the slats to rails not provided with the locking-rib. When it is desired to reverse the slats in order to adapt them to smooth side rails the hanger is adjusted longitudinally in the slot 12 and the tongue 15 inserted in the rear opening, thereby causing the hook 16 to assume a position in vertical alinement with the end of the slat. The slat is then reversed and the hook 16 inserted in an opening 17′ in the side rail adapted to receive the same, thereby securely locking the slat to the rail and preventing any lateral or longitudinal movement thereof, as clearly shown in Fig. 4 of the drawings.

In Fig. 5 I have shown a modified form of fastening adapted particularly for side rails having smooth upper surfaces. In this case the hanger 13 is permanently secured to the slat, the slat being prevented from moving longitudinally on the rail by means of the pin 18, which fits in a corresponding opening 18′ formed in the side rail.

In Fig. 6 I have shown a modified form of hanger in which the spur is dispensed with, the depending lug or tongue being provided with a reduced extension 19, while in Fig. 7 the body of the hanger is provided with a rearwardly and downwardly extending hooked projection 20, adapted to be driven in the slat.

From the foregoing description it will be seen that I have provided an extremely simple and inexpensive reversible hanger capable of securely fastening the slats in their proper position on any style of side rail and which also braces the side rails, preventing the same from spreading.

Having thus described the invention, what I claim, and desire to secure by Letters Patent, is—

1. In a bed, the combination with the angle-bars forming the side rails, of the slats resting on the horizontal web of the rails, a hanger longitudinally adjustable on said slats and adapted to engage the vertical web of the rails, said rails and slats being provided with interlocking parts.

2. In a bed, the combination with the angle-bars forming the side rails, of the slats resting on the horizontal web of the rails, a hanger secured to the slats and adapted to engage the vertical web of the rails, a longitudinal rib provided with slat-receiving recesses defining locking-tongues formed on the rails, there being corresponding sockets formed in the slats adapted to engage said tongues.

3. In a bed, the combination with the side rails, of the reversible slats, a hanger longitudinally adjustable on said slats, a longitudinal rib provided with slat-receiving recesses defining locking-tongues formed on the rails, corresponding sockets formed in the slats adapted to engage the tongues and a cushion secured to the slats and interposed between the ribs and the slats.

4. In a bed, the combination with the side rails, of the slats, a hanger secured to the slats and adapted to engage the top of the rails, a longitudinal rib formed on the rails and provided with slat-receiving recesses defining vertically-disposed shoulders, said slats being provided with a transversely-disposed recess adapted to receive the locking-rib and oppositely-disposed vertical grooves adapted to engage said shoulders.

5. In a bed, the combination with the angle-bars forming the side rails, of the slats resting on the horizontal web of the rails, said slats being provided with a longitudinally-disposed groove or channel, a hanger adjustably secured in said groove or channel and adapted to engage the vertical web of the side rails, a longitudinal rib provided with slat-receiving recesses defining locking-tongues secured to the rails, there being corresponding sockets formed in the slats adapted to receive the tongues.

6. In a bed, the combination with the side rails, of the slats, said slats being provided with a longitudinal groove or channel and having a number of openings extending through the slats and communicating with said groove or channel, a hanger having an overhanging hook and a depending tongue adapted to engage said openings adjustably mounted in the groove or channel, a locking-rib secured to the rails, and corresponding sockets formed in the slats adapted to receive said rib.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ARTHUR N. WEBB.

Witnesses:
A. B. WAID,
GEORGE H. WEAVER.