No. 793,903. PATENTED JULY 4, 1905.

A. J. OLSON.

BEDSTEAD.

APPLICATION FILED JAN. 12, 1905.

2 SHEETS—SHEET 1.

Fig. 1.

Fig. 2.

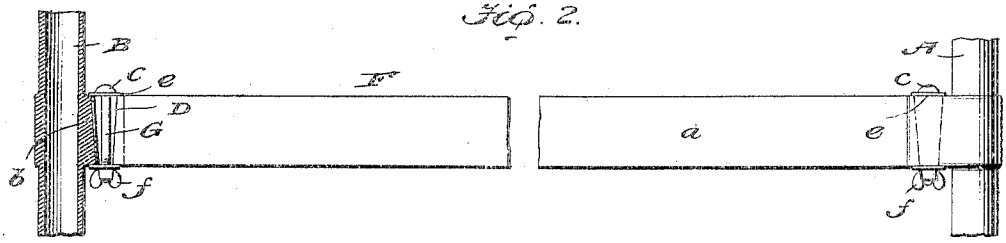


Fig. 3.

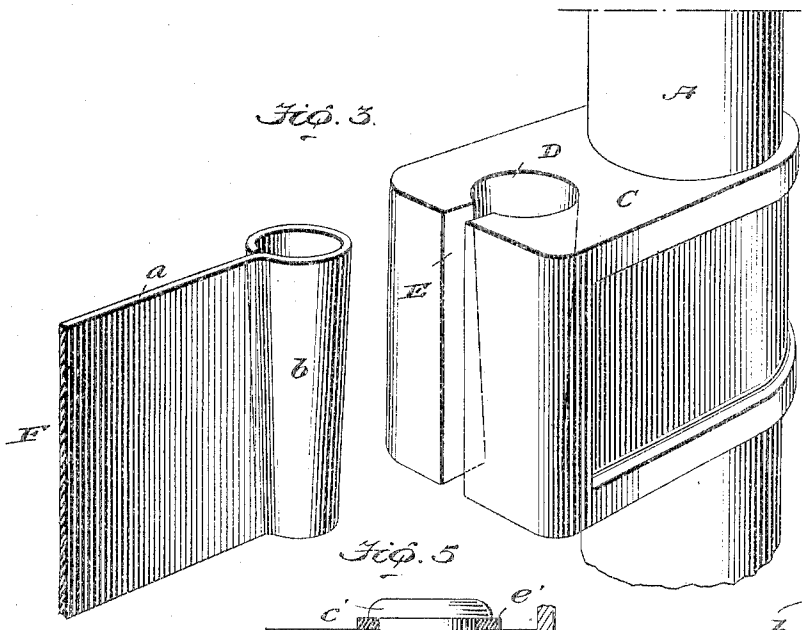


Fig. 4.

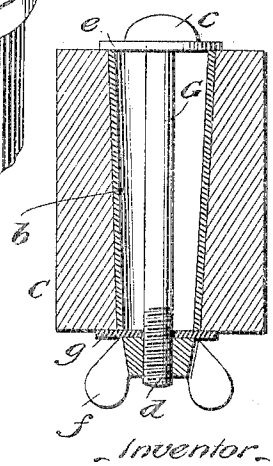
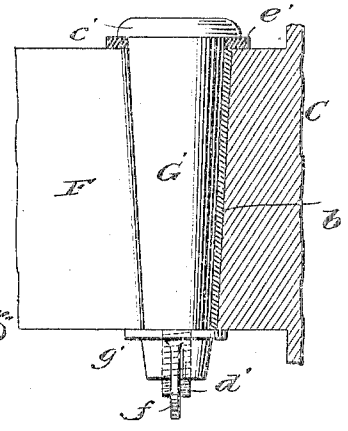


Fig. 5



Witnesses.

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No. 793,903. PATENTED JULY 4, 1905.

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2 SHEETS—SHEET 2.

Fig. 6.

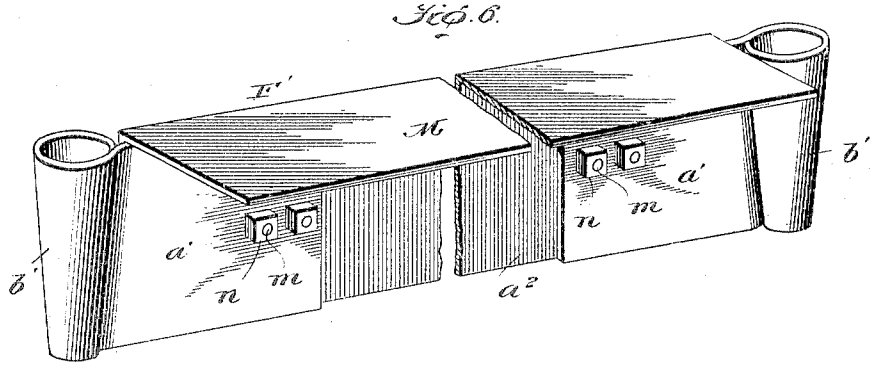


Fig. 7

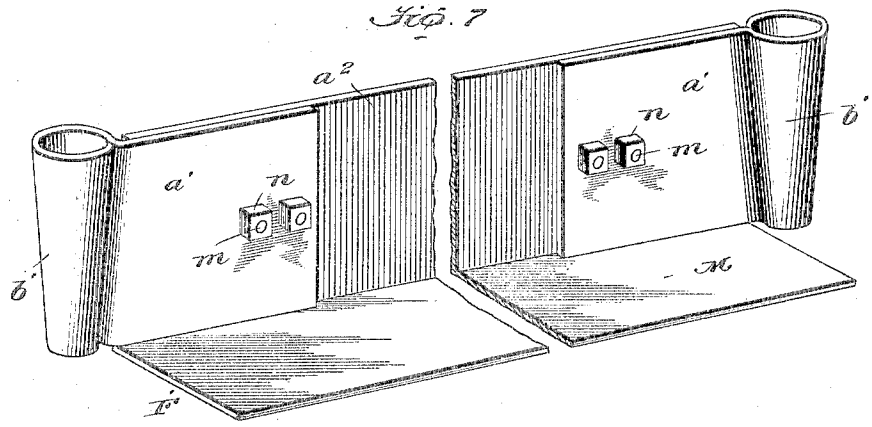
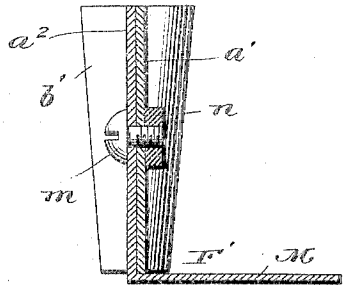


Fig. 8.



Witnesses

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No. 793,903. Patented July 4, 1905.

UNITED STATES PATENT OFFICE.

ANDREW J. OLSON, OF STREATOR, ILLINOIS.

BEDSTEAD.

SPECIFICATION forming part of Letters Patent No. 793,903, dated July 4, 1905.

Application filed January 12, 1905. Serial No. 240,784.

To all whom it may concern:

Be it known that I, ANDREW J. OLSON, a citizen of the United States, residing at Streator, in the county of Lasalle and State of Illinois, have invented new and useful Improvements in Bedsteads, of which the following is a specification.

My invention pertains to bedsteads, more particularly metallic bedsteads; and it has for one of its objects to provide a simple and inexpensive construction whereby the side rails of a bedstead may be expeditiously and securely connected to the head-piece and foot-piece thereof in such manner as to preclude casual loosening of the parts and the objectionable shaking following therefrom.

Another object of the invention is to provide a side rail for bedsteads embodying such a construction that the flange with which the side rail is provided may be disposed either at the upper edge or the lower edge thereof.

With the foregoing in mind the invention will be fully understood from the following description and claims when taken in connection with the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan view illustrating a side rail of a bedstead connected to posts of the head and foot pieces in accordance with my invention. Fig. 2 is a broken view, partly in side elevation and partly in vertical section, of the same. Fig. 3 comprises enlarged broken perspective views of the contiguous portions of the side rail and one post. Fig. 4 is an enlarged detail section illustrating the arrangement of one of the bolts comprised in my improvements and its appurtenances relative to one of the keys of the side rail. Fig. 5 is a view similar to Fig. 4 and illustrating a modification hereinafter referred to in detail. Fig. 6 is a broken perspective view of a modified rail, the same being shown with its flange at its upper edge. Fig. 7 is a similar view of the rail with its flange reversed—*i. e.*, disposed at its lower edge; and Fig. 8 is a transverse section taken through the sections of the rail when the same are relatively arranged as shown in Fig. 7.

Referring by letter to the said drawings, and more particularly to Figs. 1 to 4 thereof, A is a head-post of a metallic bedstead, and B is a foot-post thereof. The said posts are provided at an intermediate point in their height with the usual enlargements C, having vertically-disposed sockets D tapered toward their lower ends and also having slots E in the inner walls of the sockets, as best shown in Fig. 3.

F is a side rail for effecting connection between the posts A and B. The said side rails *per se* may be of the construction shown in Figs. 1 and 2 or the construction shown in Figs. 6 to 8 without involving a departure from the scope of my invention. That shown in Figs. 1 and 2 is made of a single piece of sheet-steel or other sheet metal and comprises a vertically-disposed bar *a* and keys *b* at the ends of said bar, the said keys being formed by curling or bending the ends of the bar and being tapered toward their lower ends, so as to wedge in and snugly occupy the sockets D in the enlargements C on the posts.

G, Figs. 2 and 4, is a vertical bolt extending through a key at one end of the rail F and having a head *c* at its upper end and a thread *d* at its lower end. There is one of these bolts G complementary to each key *b* of the side rail, and the bolts are respectively equipped with a washer *e*, which is interposed between its head and the adjacent end of its key, a wing or other suitable nut *f*, which is mounted on its threaded end, and a washer *g*, which is mounted on the bolt and interposed between the wing-nut and the lower end of the complementary key of the rail.

When the rail F is arranged as shown relative to the posts A and B and the bolts G are placed in the keys *b* and the wing-nuts are turned up on the bolts, it will be observed that the tapered keys will be drawn down and wedged in the sockets D, with the result that a very rigid connection of the rail to the head and foot pieces will be accomplished. It will also be observed that the connections may be expeditiously effected without the employment of tools of any kind, and they assure the side rail remaining fixed with respect to the head and foot posts and absolutely preclude

shaking or rattling of any part of the bedstead.

In the modified construction shown in Fig. 5 a tapered bolt G′ is shown in its proper position relative to one of the keys of the side rail. The said bolt G′ is of a size in cross-section to snugly occupy the key and support and lend strength to the same, and it is provided with a head c' and a thread d' and is equipped with a washer e' and a washer g', which are applied in the same manner as the corresponding washers shown in Fig. 4.

While I have described the side rail F as a full-size rail to form one of the rails of a bedstead, I desire it understood that the said rail may be made short and used simply for display purposes—*i. e.*, to hold the head and foot boards of a bedstead in an upright position in a show room or window.

The modified side rail F′ is provided at its ends with keys b', similar to the keys b. (Shown in Figs. 1 to 3.) These keys b', however, are formed at the ends of sections a', which sections are connected to a main bar a^2 in a detachable manner through the medium of transverse bolts m and nuts n, as shown in Figs. 6 to 8. I prefer the said bolts and nuts for detachably connecting the sections a' to the main bar a^2, because of their fitness for the function. I do not desire, however, to be understood as confining myself to the bolts and nuts, inasmuch as the sections a' may be detachably connected to the main bar by any other suitable means without involving a departure from the scope of my invention as claimed. The main bar a^2 of the rail F′ is provided on one of its longitudinal edges with an angular—preferably right-angle—flange M. The said flange M extends throughout the length of the main bar a^2 and is adapted to increase the strength and stiffness of the said main bar and serve any other function to which it is applicable. By reason of the detachable connection of the sections a' to the main bar a^2 the said flange may be disposed at the upper edge of the main bar, as shown in Fig. 6, or at the lower edge of said main bar, as shown in Figs. 7 and 8. Also when it is desired to change the position of the flange M relative to the side rail the same may be readily accomplished by removing the bolts m, changing the position of the main bar from that shown in Fig. 6 to that shown in Figs. 7 and 8, or vice versa, and replacing the bolts in the main bar and the end sections and applying the nuts to the bolts.

It will be appreciated from the foregoing that my improvements are simple and inexpensive in construction, that no tools are necessary in making the connections, and the said connections are well adapted to the purpose and are not liable to become casually loosened and give rise to shaking or instability of the bedstead.

I have entered into a detailed description of the construction and relative arrangement of the parts embraced in the present and preferred embodiments of my invention in order to impart a full, clear, and exact understanding of the said embodiments. I do not desire, however, to be understood as confining myself to the said specific construction and relative arrangement of parts, as such changes or modifications may be made in practice as fairly fall within the scope of my invention as claimed. For instance, the head on the taper bolt G (shown in Fig. 5) may be omitted, as may also the washer adjacent to said head.

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

1. In a bedstead, the combination with head and foot posts having vertically-disposed, downwardly-tapered sockets; of a side rail having upright tubular and downwardly-tapered keys at its ends disposed in the said sockets of the posts, upright bolts extending through the tubular keys from end to end thereof and having heads at one end, and means engaging the opposite ends of the bolts for securing the keys in the sockets.

2. In a bedstead, the combination with head and foot posts having vertically-disposed, downwardly-tapered sockets; of a side rail having upright tubular and downwardly-tapered keys at its ends disposed in the said sockets of the posts, upright, downwardly-tapered bolts snugly occupying and extending through the keys from end to end thereof and having heads at one end, and means engaging the opposite ends of the bolts for securing the keys in the sockets.

3. In a bedstead, the combination with head and foot posts having vertically-disposed, downwardly-tapered sockets; of a side rail comprising a main bar having an angular flange, end sections having upright, tubular and downwardly-tapered keys at their outer ends removably arranged in the sockets of the posts, and means detachably connecting the main bar and the end sections for the purpose set forth, upright bolts extending through the tubular keys from end to end thereof and having heads at one end, and means engaging the opposite ends of the said bolts for securing the keys in the sockets of the posts.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ANDREW J. OLSON.

Witnesses:
HIRAM CLIFFORD,
PATRICK J. RYAN.