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R. R. THOMAS.

BED RAIL.

APPLICATION FILED APR. 16, 1913.

1,070,079. Patented Aug. 12, 1913.

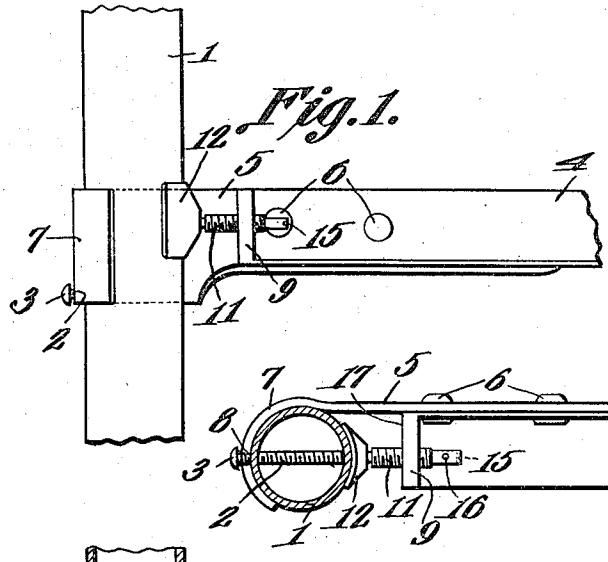


Fig. 1.

Fig. 2.

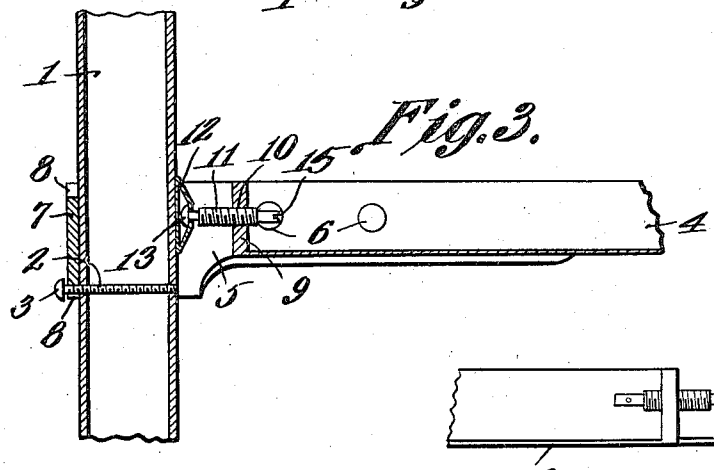


Fig. 3.

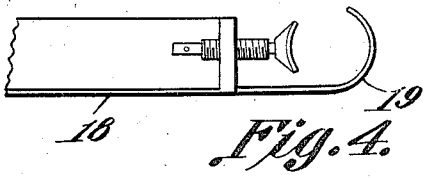


Fig. 4.

Witnesses

J. P. Tonnein

S. Willson

R. R. Thomas,
Inventor

by C. A. Snow & Co.
Attorneys

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UNITED STATES PATENT OFFICE.

ROBERT R. THOMAS, OF OAK HILL, WEST VIRGINIA.

BED-RAIL.

1,070,079. Specification of Letters Patent. Patented Aug. 12, 1913.

Application filed April 16, 1913. Serial No. 761,529.

To all whom it may concern:

Be it known that I, ROBERT R. THOMAS, a citizen of the United States, residing at Oak Hill, in the county of Fayette and State of West Virginia, have invented a new and useful Bed-Rail, of which the following is a specification.

This invention relates to improvements in bed rails and more particularly to the ends thereof which are adapted to engage the bed posts.

An object of the present invention is to provide an improved bed rail connection whereby the same may be easily and quickly secured to a bed post or detached therefrom.

A further object is to provide a bed rail formed of the usual angle iron and which may be connected to the bed post with the outstanding angle at the top of the rail to thereby accommodate a box spring or to be secured in a position with the outstanding angle at the lower extremity of the said rail to thereby form a supporting ledge for slats.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the drawings accompanying this specification and forming a part thereof, the preferable form of my invention is illustrated, in which:—

Figure 1 is a fragmental view illustrating the manner in which the end of the bed rail is formed and showing the same in position engaging a bed post. Fig. 2 is a top plan view of the same. Fig. 3 is a vertical sectional view taken through the central axis of my improved rail connection. Fig. 4 illustrates a slightly modified form.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 represents a bed post cylindrical in outline and to which is rigidly secured the outstanding lug 2, the same being provided with an enlarged head 3.

My improved bed rail connection is adapted to rest upon and be engaged by the said outstanding lug 2 and with this end in view the angle iron 4 which comprises the body portion of the bed rail is provided with the hook ended member 5 riveted thereto.

The hook ended member 5 is rigidly secured to the vertical flange of the angle iron 4 by the rivet 6 or other suitable means and engages the bed post 1. The hook end 7 is provided with two alined notches 8 which are adapted to fit over the outstanding lug 2 and to thereby detachably secure the bed rail to the end post, it being pointed out that when the said notch 8 is engaged by the lug 2, there will be no chance of the rail shifting transversely, which would otherwise occur. The angle iron bed rail 4 is provided with an end wall 9 rigidly secured thereto and through which extends the aperture 10. Extending through the aperture 10 and threadedly engaging the side walls thereof is the bolt 11 secured to the front portion of which is the clamp 12. The clamp 12 is curved as illustrated in Fig. 2 and is loosely connected to the front end of the bolt 11 which is provided with the enlarged end 13 which is positioned within the said clamp 12. The head of the bolt is milled for the engagement therewith of a wrench for the rotation of the bolt. In order to provide further means for the engagement of the bolt for the rotation thereof, an opening 15 is provided and extends through the bolt head, and a slot 16 is also cut therein from which it will be apparent that some means will always be at hand for the unscrewing or screwing up of the said bolt. The hook ended member 5 is provided with the underlying flange 17 which extends under the outstanding flange of the angle iron 4 and which helps to bear some of the strain to thereby relieve the rivet 6 of a portion thereof. The range of adjustment of the clamp 12 is sufficient so that the hooked member 5 may be slipped from the end post 1 and accordingly disengaged therefrom. The modified form as illustrated in Fig. 4 of the drawings, shows the vertical flange 18 of the angle iron as being projected and curved to form the hook member 19, this construction being used for the lighter forms of beds and provides a more simple construction than when the hooked member is formed of a separate piece and rivetedly secured to the angle iron. Otherwise, the construction of the modified form is similar to that already described.

From the foregoing it will be apparent that with the connection between the end post and the bed rail that the angle iron

which constitutes the bed rail may be held with the horizontal flange at the top or bottom of the bed rail so that a box spring may be supported or suitable means provided for the receiving and supporting of bed slats. Furthermore, by reason of the notches formed in the hooked end 7, the bed rail will always be perpendicular to the planes of the front and back of the bed and will be prevented from twisting out of said position. The outstanding lug 2 may be in the nature of a bolt or may be a projection secured to or formed integral with the bed post. The construction herein described is extremely light and simple and renders a quick and easy connection between the bed post and the bed rail possible. The bolt is adapted to force the clamp into engagement with the bed post and said bolt is provided with a head which may be engaged by a wrench, screw driver or round rod so that it is practically assured that some means will be at hand whereby said bolt may be turned to thereby force the clamp into engagement with the bed post at a point which is diametrically opposite that which is engaged by the hooked end 7 of the hook member. When the clamp has been suitably tightened against the bed post it will be impossible for the bed rail to shift in a vertical direction and furthermore by reason of the outstanding lug and notches it will be practically impossible for any movement of the bed rail with respect to the bed post.

Having thus described the invention what I claim to be new and original with me is:—

1. The combination of a bed rail, a hooked end projecting therefrom and provided with alined notches at its upper and lower extremities, a bed post with a lug outstanding therefrom adapted to engage the one of the said notches, and a clamp secured to the said bed rail and means for forcing the same into engagement with the said bed post.

2. The combination of a bed rail and a bed post, a hook ended member projecting from the said bed rail and adapted to engage said bed post, said hooked end provided with alined notches at the upper and lower edges thereof, an outstanding lug rigidly secured to the said bed post adapted to engage one of the said notches to support the bed rail to prevent lateral twisting thereof, and a bolt extending toward the said bed post and engaging the said bed rail, a clamp secured to said bolt and adapted to engage the said bed post and hold the same in contact with the hooked end of the said hook ended member.

3. The combination with a bed rail and a bed post, of a hook ended member projecting from said bed rail and provided with alined notches at its upper and lower extremities, an outstanding lug rigidly secured to the said bed post and adapted to fit within one of the said notches, an end wall fixed to the said bed rail and provided with a threaded aperture, a bolt extending through said aperture and engaging the same, a clamp loosely secured to the extremity of said bolt and adapted to contact with the said bed post to engage the same, said bolt extending toward said bed post and provided with a head whereby the said bolt may be rotated.

4. The combination with an angle iron bed rail and a cylindrical bed post, of one flange of the said angle iron projected and provided with a hooked end and provided with alined notches at the upper and lower edges of said hooked end, said cylindrical bed post provided with an outstanding lug secured thereto adapted to engage one of the said notches to thereby hold the said bed rail against lateral twisting, an end wall at the end of said angle iron bed rail and provided with a threaded aperture, a bolt extending through said threaded aperture and extending toward the said cylindrical bed post when the same is positioned in the hooked end, and a clamp loosely secured to the enlarged end of said bolt adapted to engage the said cylindrical bed post to prevent the vertical movement of said bed rail.

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

ROBERT R. THOMAS.

Witnesses:
J. E. Lewis,
W. M. Hannabass.