

Nov. 13, 1951

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2,575,271

SIDE RAIL CONNECTION FOR BEDSTEADS

Filed April 30, 1948

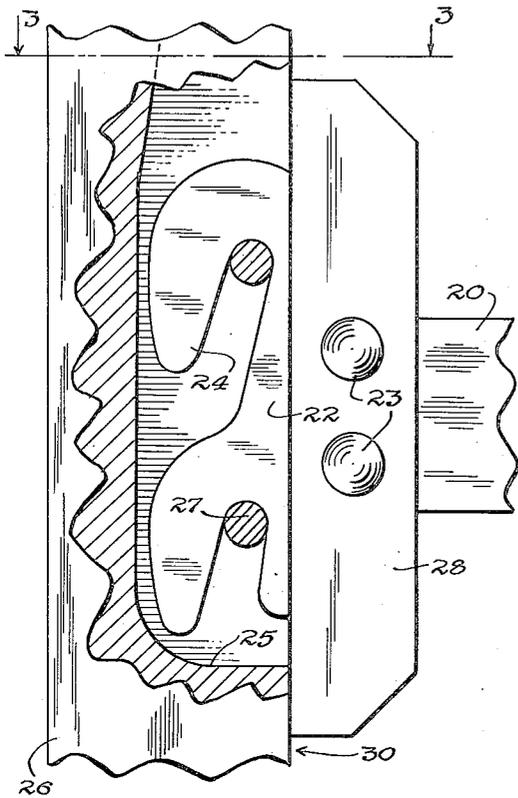


Fig. 1

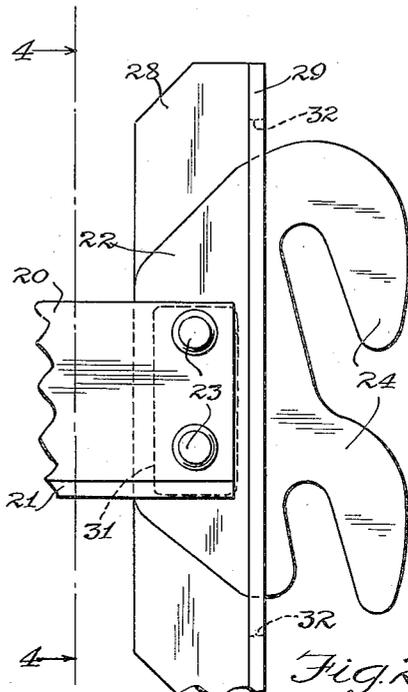


Fig. 2

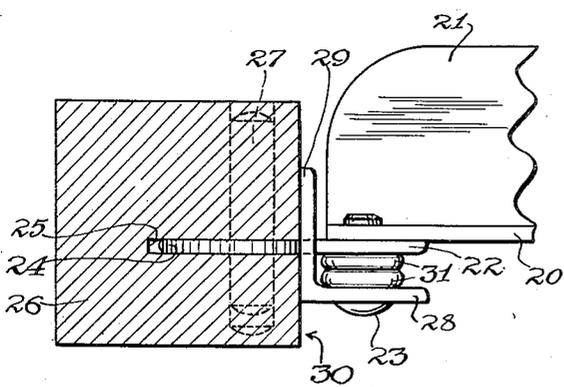


Fig. 3

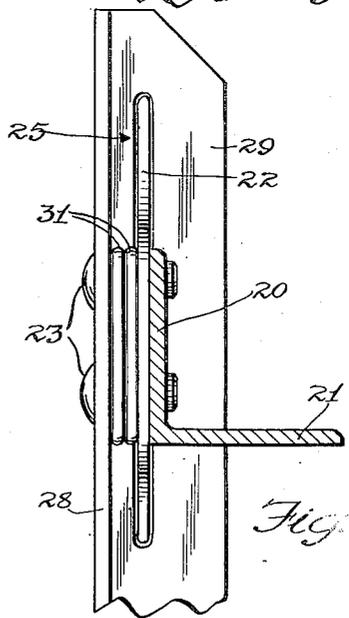


Fig. 4

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# UNITED STATES PATENT OFFICE

2,575,271

## SIDE RAIL CONNECTION FOR BEDSTEADS

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Application April 30, 1948, Serial No. 24,315

3 Claims. (Cl. 5—296)

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My invention relates to the terminal construction of side rails for bedsteads, and deals more particularly with the means carried by the ends of the side rail for application to the related bed positions.

The present improvement has for one of its objects to provide each end-fitting of the side rail with an angle plate which offers a square bearing surface for the inner surface of the bed post adjacent the same.

A further object is to lend the angle plate the form of an ample bearing surface for the bed post by offsetting it from the end of the side rail sufficiently to balance the cross-flange of the angle plate in respect to the side rail.

A still further object is to employ the cross flange of the angle plate as a guide for the passage of the extension plate and as a reinforcement for the same.

Another object is to offset the angle plate by means of the usual extension plate and additional insert strips, whereby to greatly strengthen the end-fitting of the side rail.

An additional object is to make the insert strips from common or waste stock which is usually available and inexpensive.

An important object is to design a side rail fitting which is compact in design and simple in construction.

With the above objects in view, and any others which may suggest themselves from the description to follow, a better understanding of the invention may be had by reference to the accompanying drawing, in which—

Fig. 1 is an elevation of the end portion of the improved bed rail from one side as joined to the bed post, the latter being shown partly in section;

Fig. 2 is a view of the said end portion from the other side;

Fig. 3 is a section on the line 3—3 of Fig. 1; and Fig. 4 is a section on the line 4—4 of Fig. 2.

Referring specifically to the drawing, 20 denotes the side rail, the same being of angle form and having an inwardly extending base flange 21 for the support of one side of the bed spring (not shown).

The extension plate is indicated at 22. It is applied to the outer side of the upward flange 20 of the side rail and secured to the same by a pair of vertically-spaced rivets 23. Beyond the side rail the extension plate presents the conventional hooks 24 which enter a slot 25 in the bed post 26 and engage cross-pins 27 carried by the same.

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The upward flange 20 of the side rail is spaced substantially midway between the sides of the bed post; and the side rail carries a member which offers a balanced bearing surface for the contiguous face of the bed post. Thus, this member is a vertically positioned angle plate receiving the end of the side rail in its hollow.

One flange of the angle plate is indicated at 28 and is spaced outwardly from the side rail, while the adjacent flange 29 is directed endwise thereof and placed against the contiguous face 30 of the bed post 26. The outward spacing of the angle plate is such as to locate the middle of the flange 29 opposite the upward flange 20 of the side rail. The spacing referred to is obtained by making the rivets 23 long enough to receive a pair of insert strips 31 placed outside the extension plate 22 and within the outer flange 28 of the angle plate, as clearly shown in Fig. 3. The end flange 29 is slotted, as indicated at 32, to permit the passage of the extension plate to form the hooks 24.

It is now apparent that the novel placing of the angle plate balances it in respect to the supporting flange 20 of the side rail, so that the end flange 29 of the angle plate forms a centralized and ample bearing surface for the face 30 of the bed post. This bearing surface is extended in the improved embodiment by making the angle plate of considerable length, so that a firm end-support is offered by the side rail for the bed post. In addition, the end flange of the angle plate offers a reinforcing guide for the projecting portion of the extension plate, checking tendencies for the latter to bend or twist when the bed is pushed sidewise. Further, the placing of the extension plate and the two spacing strips between the side rail and the angle plate builds up a group of five plies of steel stock which lend the fitting a solid and sturdy construction and furnish a firm base for the angle plate. Further, the assembly just described enables the extension plate to occur next to the side rail and therefore form a practically direct or aligned extension therefrom into the bed post. Further, the form of the angle plate makes the fitting compact. Finally, the use of the common insert strips 31 creates an important advantage in the saving and availability of material, enabling the fitting to be produced economically and expeditiously.

While I have described the invention along specific lines, various minor changes or refinements may be made therein without departing from its principle, and I reserve the right to

employ all such changes and refinements as may come within the scope and spirit of the appended claims.

I claim:

1. In a bedstead, the combination of a post having a slot spaced substantially midway of the post, pins extending crosswise of the slot, a flanged side rail having a lower inwardly extending base flange and a vertically extending side flange, an extension member having hooked ends and being riveted to the side flange by a pair of vertically spaced rivets, a vertically positioned L-shaped angle plate having one of its sides extending parallel and secured to the vertical side flange of the side rail, a plurality of inserts mounted between the vertical side flange of the rail and the said one side of the angle plate, the other side of the angle plate lying in a plane parallel to the inner surface of the bedstead post, and having a recess through which the extension member projects, and such other side engaging and forming a bearing surface between the angle plate surface and the surface of the bed post when the hooked extension is moved to engagement with the cross-pins of the bed post.

2. In a bedstead, the combination of a post having a vertical slot in one face, cross-pins in the post intersecting the slot, a side rail terminating with one end opposite said face, a side extension carried by the side rail and terminat-

ing with hooks entering said slot and engaging said pins on the joining of the side rail with the post; a vertical angle plate having a side flange parallel to said extension and a frontal flange engaging said face when the hooks engage the pins as stated, said frontal flange having a perforation for the passage of said extension, and means supporting the angle plate from the side rail with the side flange spaced a sufficient distance from the extension to locate the perforation in the frontal flange substantially along the middle thereof, whereby to impart comparatively equal width to the portions of the frontal flange engaging said face and balance such engagement.

3. The structure of claim 2, said means comprising a group of plates positioned as inserts between the extension and said side flange, and rivets directed from the side rail through the extension, inserts and side flange to rigidly secure the assembly thereof.

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