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RAIL FASTENER FOR WOODEN BEDS

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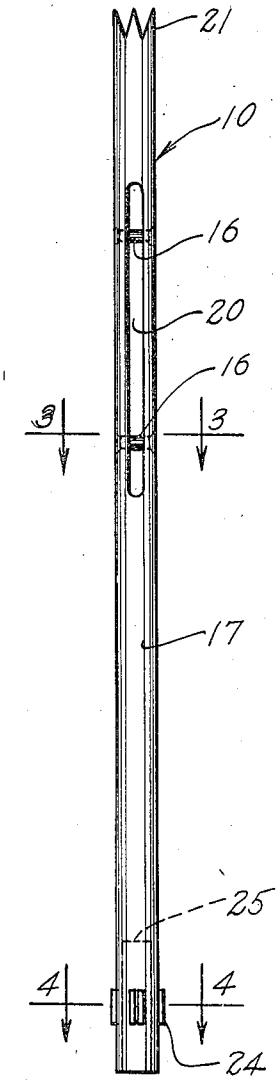


Fig. 1

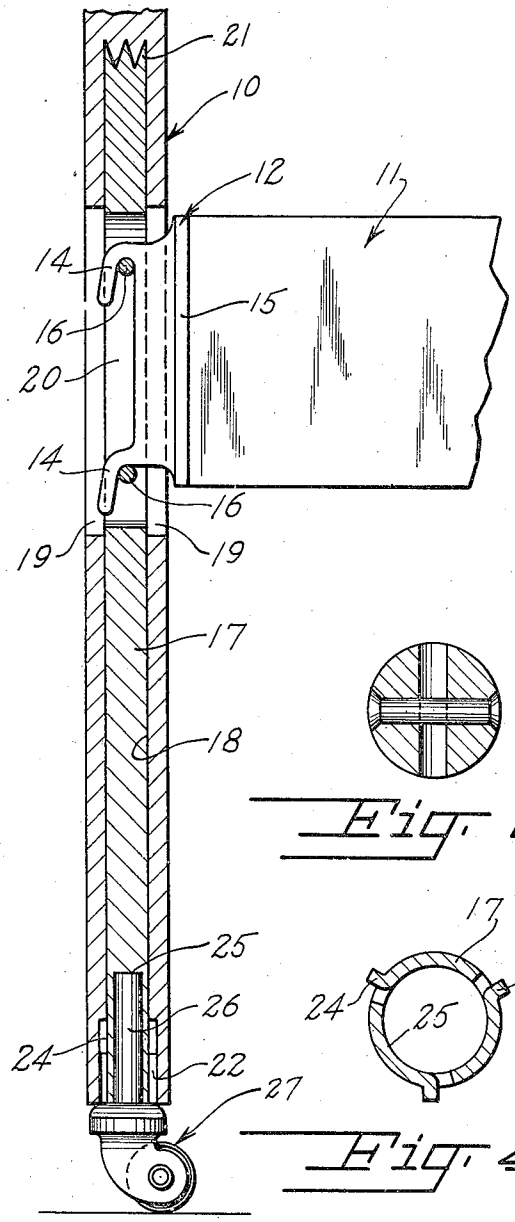


Fig. 2

Fig. 3

Fig. 4

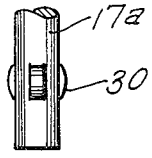


Fig. 6

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RAIL FASTENER FOR WOODEN BEDS

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2 Claims. (Cl. 5—288)

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This invention relates to beds.

It is an object of this invention to provide an improved supporting means for an end post of a bed with which the hook carried by the side rails of the bed may be engaged whereby the weight of the side rails will be carried by the supporting member and the end posts of the bed will be relieved of all the tension due to the weight of the bed through the side rails.

Another object of this invention is to provide an improved supporting means for the end post of a bed which may be readily attached to or mounted within the end posts of beds currently in use and which may as readily be incorporated in beds being manufactured at the present time or in the future. The supporting member may rest directly on the floor or be supported on a caster.

Heretofore, supporting bars or pins have been carried by the end post of the bed and the hooks mounted on the side rails adapted to engage with the pins impose the strain of the weight of the bed on these pins, resulting in the possibility of splitting the end posts. With the use of a supporting member of this kind, the end post may be formed of wood as conventionally used, while the supporting member may be formed of metal for carrying the strain between the hooks and the pins, and the supporting member is so supported that it may be removed from the end post when desired.

With the above and other objects in view, my invention consists in the arrangement, combination and details of construction disclosed in the drawings and specification, and then more particularly pointed out in the appended claims.

In the drawings,

Figure 1 is a front elevation of an end post supporting member removed from the end post,

Figure 2 is a vertical section partly broken away through an end post showing the connection of the side rail hooks therewith,

Figure 3 is a horizontal section taken on the line 3—3 of Figure 1,

Figure 4 is a horizontal section taken on the line 4—4 of Figure 1, and

Figure 5 is a side elevation partly broken away of a modified form of the lower end of the supporting member.

Referring to the drawings, the numeral 10 designates generally the end post of a bed with which a side rail 11 is adapted to be detachably engaged.

In the conventional construction of beds, the side rails 11 are provided at their ends with a

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double hooked member 12. The hook member 12 is provided with vertically spaced apart hooks 14 depending from the upper and lower ends of the plate 15 which is secured to an end of the rail 11.

In the conventional structure of beds, the end post is provided with an opening therethrough having a pin with which the hooks 14 are engageable. This invention provides a supporting means for the end post having pins 16 supported on a rod 17 so that the weight of the side rails 11 may be supported by the reinforcing member 17.

The end post 10 is provided with an upwardly extending opening 18 at its lower end. The opening 18 extends upwardly from the extreme bottom end of the post 10 to a point substantially above the point at which the side rail 11 will engage the end post.

The end post 10 is provided with openings 19 transversely thereof, spaced upwardly from the bottom end within which the hooks 14 are adapted to be engaged. The supporting member 17 is also formed with an opening 20 therethrough for registry with the openings 19 of the end post 10.

The pins 16 carried by the supporting member 17 are disposed adjacent the ends of the opening 20 and extend transversely across. The hooks 14 of the side rail 11 are then adapted to be supportingly engaged with the pins 16 on the supporting member 17 so that the weight of the side rails is completely carried by the member 17.

The supporting member 17 extends completely along the length of the opening 18 to the extreme bottom end of the end post 10. Tangs 21 are fixed to or formed on the upper end of the rod 17 for penetrating into the post 10 at the upper end of the opening 18.

The engagement of the tangs 21 in the post 10 secures the rod 17 into the end post. The lower end of the post 10 is formed with upwardly extending grooves or passages 22 which open downwardly through the end thereof. The grooves 22 are disposed circumferentially about the opening 18, and extend radially therefrom.

Lugs 24 formed on the lower end of the rod 17 are adapted to slidingly engage in the grooves 22 for holding the rod against rotation relative to the end post 10 and for securing the lower end of the rod therein. The lugs 24 may be formed by striking them from the member 17 as shown clearly in Figure 4 of the drawings.

The lower end of the rod 17 is formed with a downwardly opening bore 25 therein within which

the supporting shaft **26** of a caster **27** is adapted to be rotatably engaged. The bore **25** then provides a cylindrical or tubular lower end on the rod **17** from which the lugs **24** may be struck.

In Figure 5 there is shown a modified rod **17** having outwardly extending radial lugs **30** fixed to or formed thereon. In the form of the invention shown in Figures 1 to 4, the rod **17** is provided with a caster **27**. As the casters are detachably secured on the bed, when the caster is removed the lower end of the rod **17** will engage the floor or supporting surface and at such times it is necessary to provide the bore **25** therein.

The rod **17** may be then formed solid at its lower end as indicated in Figure 5 in the drawings. For installing the rod **17** in an end post **10**, it is necessary first to drill the opening **18** and then to hammer or otherwise secure the supporting member **17** in the opening **18** where it is secured by the tangs **21** and the lugs **24**.

I do not mean to confine myself to the exact details of construction herein disclosed but claim all variations falling within the purview of the appended claims.

Having thus described my invention, what I claim is:

1. A bed end post reinforcing member comprising an elongated rod having an elongated opening extending longitudinally thereof at one end, a transverse pin on said member through said opening, end post penetrating tangs on the upper end of said rod, and substantially radially disposed lugs on the lower end of said rod for securing said rod in a bed end post at the lower end thereof.

2. A hollow bed end post reinforcing member comprising an elongated rod having an elongated transverse opening therethrough extending longitudinally thereof at one end, a transverse pin on said rod across said opening, end post penetrating fastening elements on the upper end of said rod, and outwardly-extending lugs on the lower end of said rod engageable with the bed end post for securing said rod therein.

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The following references are of record in the file of this patent:

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