

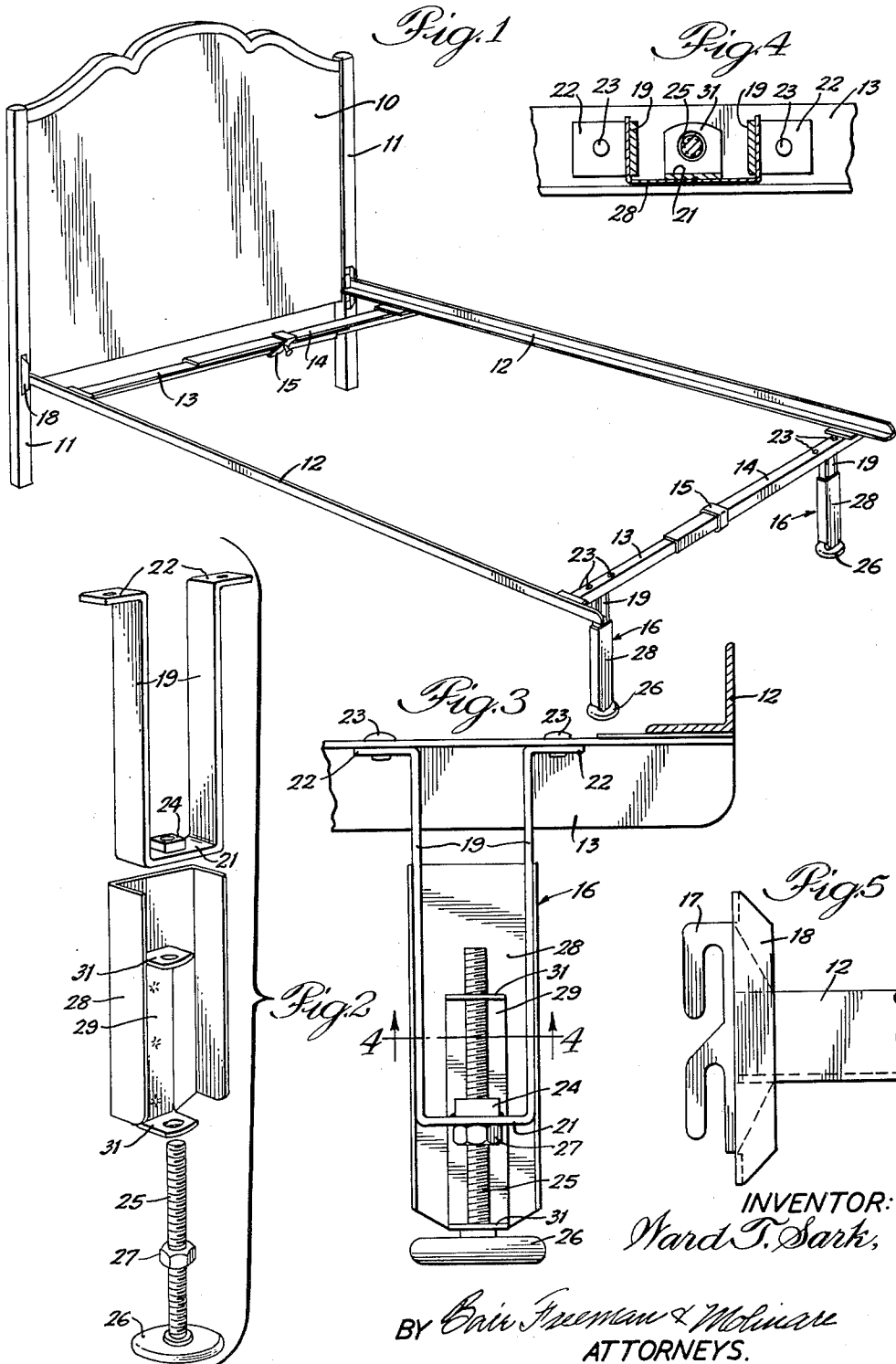
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BED FRAME

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BED FRAME

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This invention relates to bed frames and more particularly to an adjustable leg construction for bed frames.

It is highly desirable on many occasions to attach a metal bed frame to a conventional bed end as, for example, to preserve old wooden bed ends for their sentimental value or beauty while minimizing the space required for an entire wooden bed. Even though metal bed frames, as presently manufactured, are adjustable in width for attachment to head boards of different sizes they are not well adapted for attachment to conventional bed ends and usually require some cutting and fitting either of the bed frame or of the bed end to effect the attachment.

Furthermore, if the conventional side rails mountings on a bed end were to be used, such mountings are at different heights above the floor. It is therefore necessary that the bed frame have legs whose height is adjustable. At the same time it is highly desirable to maintain an attractive appearance for the legs of the bed frame.

It is one of the objects of the present invention to provide a bed frame having adjustable legs which may easily and quickly be adjusted to a desired height and which are covered with a slidable cover to present an attractive appearance in all adjusted positions.

According to a feature of the invention, the legs are formed by vertically elongated bodies with elongated screws threaded into the lower ends thereof and with channel section covers held slidably over the bodies by lugs thereon formed with openings loosely receiving the screws.

The above and other objects and features of the invention will be more readily apparent from the following description when read in connection with the accompanying drawing, in which:

FIGURE 1 is a perspective view of a bed frame embodying the invention showing the frame attached to a conventional wooden bed end;

FIGURE 2 is a disassembled perspective view of the adjustable leg;

FIGURE 3 is an elevation of the leg looking from inside the bed frame;

FIGURE 4 is a section on the line 4—4 of FIGURE 3; and

FIGURE 5 is a side elevation illustrating the fitting for attaching one of the side rails to the bed end.

The bed frame, as shown in FIGURE 1, is adapted to be attached to a conventional bed end, indicated generally at 10. The bed end is provided with side posts 11 extending vertically at opposite sides thereof and which are formed at a distance above the bottom ends thereof with mounting sockets to receive the conventional fastenings commonly employed on bed side rails. Such sockets, while not shown in detail, generally comprise elongated slots having cross pins extending thereacross at vertically spaced points to receive a hook member on the end of a side rail.

The bed frame comprises elongated side rails 12 which are preferably of L-section with their outside flanges extending vertically and their lower flanges extending horizontally toward each other to receive cross slats or a conventional box spring, as desired. The side rails are adjustably connected by adjustable cross rails each formed of two parts 13 and 14 which are also preferably of L-section and which are slidably interfitted with each other. The end rail sections may be clamped together by clamps

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15 which will hold the end rail sections rigidly together to provide the desired spacing between the side rails. At the foot end of the bed the frame is supported on legs, indicated generally at 16, and which according to the present invention are vertically adjustable. At the head end of the bed, the side rails carry hook plates 17 projecting from flange plates 18 to interengage with sockets on the bed end with the hooks drawing the flange plates firmly against the outer surfaces of the posts 11 to provide a rigid connection, as is conventional.

Each of the legs 16 comprises a vertically elongated body portion which, as shown, is in the form of an U-shaped metal strap having spaced parallel sides 19 connected by a bottom horizontal web 21. At their upper ends the legs 19 are bent outwardly, as shown at 22, and are rigidly secured to one of the cross rail sections 13 or 14 by means of rivets 23, or similar fastenings. The bottom web 21 is formed with a threaded opening centrally therethrough, for example, by welding a nut 24 thereto in registry with a punched opening therethrough. An elongated screw 25 is threaded through the nut 24 and terminates at its lower end in an enlarged foot 26 adapted to rest on the floor. The screw 25 may be threaded through the nut 24 to the desired amount to provide the desired leg height and may be locked securely in adjusted position by a lock nut 27 threaded thereon and engageable with the lower surface of the web 21.

While this construction provides a leg which is easily adjustable and which is simple and inexpensive to construct, it would not present a very pleasing appearance when viewing the bed from the foot end. Therefore, in order to cover the elongated leg body and the screw, a decorative cover 28 is provided which is preferably formed of light gauge metal and which is channel sectioned to fit slidably over the body portion with its flanges overlying the side members 19. In order to hold the cover slidably in place, it is provided on the inner surface of its web with an elongated strip 29 welded or otherwise permanently secured to the cover and which terminates at its upper and lower ends in outwardly extending lugs 31. Each of the lugs is formed with an opening therethrough of a size loosely to receive the screw 25 so that the cover is retained in position on the leg body by the screw, but is freely slidable vertically on the leg.

The cover is assembled, as best seen in FIGURE 3, with one of the lugs 31 above the web 21 and the other lug 31 below the web 21 and the lock nut 27. The cover is made of such a length that it will completely cover the leg when it is adjusted to its minimum height. As the leg is extended to greater heights the cover will drop by gravity until the lower lug 31 rests on the enlarged foot member 26, as seen in FIGURE 3. Thus the lower part of the leg is always covered and will present an attractive appearance and even in the furthest extended position of the leg only a very short portion of the leg body is exposed above the top of the cover, this portion not normally being readily visible when the bed is completely assembled. Thus by the present invention there is provided a very simple and inexpensive bed frame which is adapted to be assembled with any desired type of conventional bed ends and which can be readily adjustable to accommodate both the width of the bed end and the height of the mounting sockets thereon.

While one embodiment of the invention has been shown and described herein, it will be understood that it is illustrative only and not to be taken as a definition of the scope of the invention, reference being had for this purpose to the appended claims.

What is claimed is:

1. A bed frame for use with a conventional bed end comprising elongated side rails connected adjacent to their

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opposite ends by cross rails, fastenings at one end of the side rails to connect them to a conventional bed end, and laterally spaced adjustable legs secured to the frame adjacent to the other end thereof, each of said legs comprising a hollow leg body open at one side extending downwardly from the bed frame, an elongated screw threaded into the lower end of the body and terminating at its lower end in an enlarged foot part to engage the floor, a channel shaped cover fitting slidably over the body and closing the open side thereof, and lugs spaced longitudinally of the cover extending inward from the web thereof into the open side of the body and having openings therein loosely receiving the screw, the cover dropping by gravity to a position in which its lower end engages the enlarged foot part of the screw.

2. A bed frame for use with a conventional bed end comprising elongated side rails connected adjacent to their opposite ends by cross rails, fastenings at one end of the side rails to connect them to a conventional bed end, and laterally spaced adjustable legs secured to the frame adjacent to the other end thereof, each of said legs comprising a vertically elongated U-shaped body having the upper ends of its sides rigidly secured to the bed frame, a vertically elongated screw threaded through the web of the body and terminating at its lower end in an enlarged foot part to engage the floor, a vertically elongated channel section cover slidably embracing the body and covering an open side thereof, and vertically spaced lugs extending inwardly from the web of the cover and formed with openings loosely receiving the screw,

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one of said lugs lying above and the other below the web of the body.

3. In a bed frame, an adjustable leg comprising a vertically elongated hollow leg body formed at its upper end for rigid connection to a bed frame and open at one side, a vertical elongated screw threaded into the lower end of the body and terminating at its bottom in an enlarged foot part to engage the floor, a vertically elongated channel section cover slidably embracing the body and closing the open side thereof, and vertically spaced lugs extending inward from the web of the cover and having openings therein loosely receiving the screw, one of said legs extending into the open side of the body.

4. In a bed frame, an adjustable leg comprising a vertically elongated U-shaped body having the upper ends of its sides formed for rigid connection to a bed frame, a vertical elongated screw threaded through the web of the body and terminating at its lower end in an enlarged foot part to rest on the floor, a vertically elongated channel section cover slidably embracing the body and closing one open side thereof, and a pair of vertically spaced lugs extending inward from the web of the cover and loosely receiving the screw, one of the lugs lying above and the other below the web of the body.

References Cited in the file of this patent

UNITED STATES PATENTS

1,440,158	Lewis	Dec. 26, 1922
2,851,702	Imber et al.	Sept. 16, 1958
2,887,351	Allender	May 19, 1959