Dec. 11, 1928. 1,694,940

G. HERZ

BED

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Fig. 1.

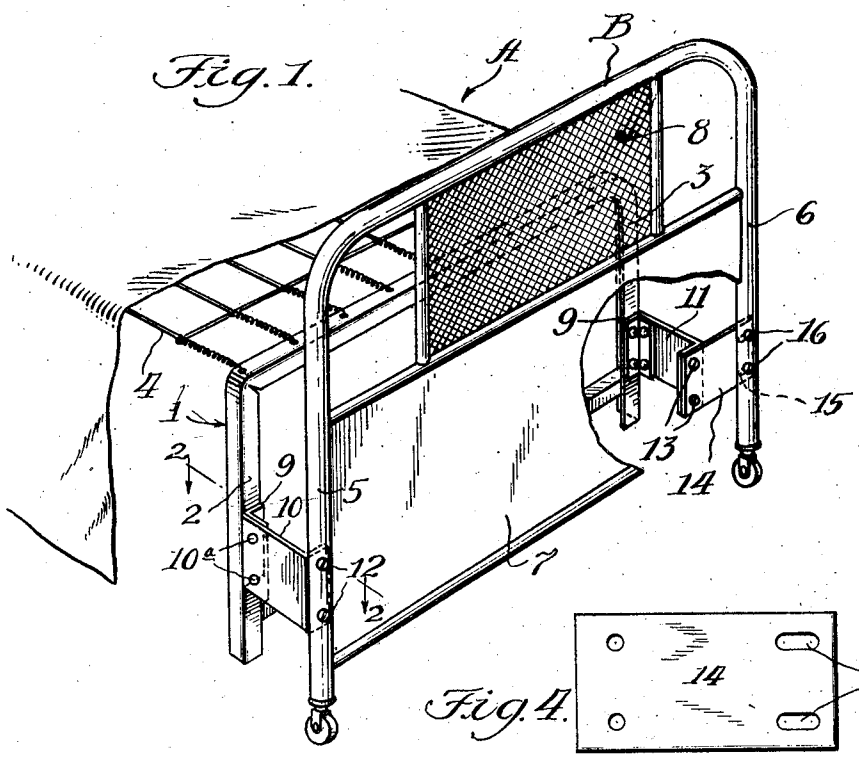


Fig. 4.

Fig. 2.

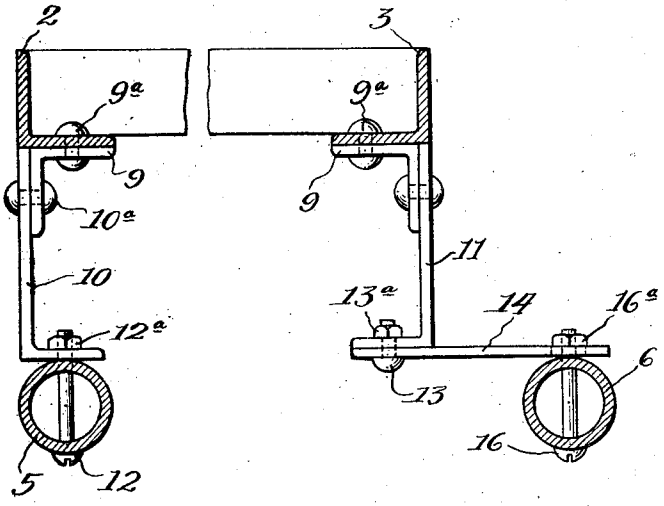
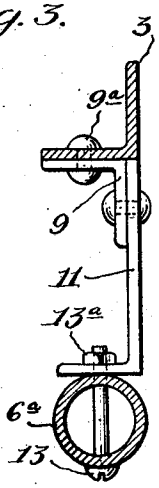


Fig. 3.



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UNITED STATES PATENT OFFICE.

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BED.

Application filed June 16, 1926. Serial No. 116,390.

My invention relates to beds, and more particularly, to means for mounting the bed section thereof upon the bed ends.

In the manufacture of beds it is customary in certain instances to employ detachable bed ends of varying widths for supporting the bed section, and it is desirable, at times, to employ detachable bed sections of the same or substantially the same size, shape and construction with different width bed ends instead of furnishing bed sections of different size, shape and construction for each bed end of varying width. One of the objects of my invention is, therefore, to provide means for accomplishing the foregoing desirable features wherein means are provided for adapting bed sections of uniform size, shape and construction to bed ends of varying widths, all of which, in addition to the advantages to the user, facilitates manufacture, handling of stock parts, maintenance, replacement, and the like.

Another object is to provide an adapter means for accomplishing the foregoing advantages which is adjustable for effecting true alignment of the connected parts, and for accommodating a plurality of bed ends of different widths.

Other and further objects and advantages will appear hereinafter as this description progresses and by reference to the drawings wherein—

Fig. 1 is a fragmental perspective view showing one end of a bed with my invention applied thereto.

Fig. 2 is an enlarged and broken horizontal section taken on line 2—2 of Fig. 1.

Fig. 3 is a fragmental, horizontal section taken in substantially the same position as Fig. 2 and illustrating the manner of attaching the bed section to bed ends of narrower width than the bed end shown in Figs. 1 and 2, and which is the same width as the bed section.

Fig. 4 is a plan view of means for adapting the bed section to detachable bed ends of varying widths, and which are wider than the bed section shown.

My invention may be employed in connection with ordinary beds, day beds, couch beds, and the like, where it may be found desirable to use a bed section of predetermined size and shape with either of these forms of beds regardless of their varying widths, this being accomplished without departing from the scope of my invention.

Referring particularly to the drawings, the bed shown may comprise a bed section A having an end frame member 1, legs 2 and 3 and the spring mattress structure 4. The bed section A is adapted to be supported at each end by a detachable bed end B having the legs 5 and 6. The parts above referred to are, preferably, formed from metal but it is obvious that other suitable material may be employed if desired. In the bed shown in the drawings, the bed end B is provided with a cross panel 7 carried by the legs 5 and 6 and the lattice formation 8, however, such construction may be varied to suit the particular conditions of use and the fancy of the user without departing from my invention.

Each of the bed section legs 2 and 3 has a right angled and vertically-carried bracket member 9 secured thereto by rivets 9^a, or otherwise, at the desired height thereon. The bracket member 9 attached to the bed section leg 2, in turn, carries another longitudinally extending bracket member 10, the projecting end of which is bent inwardly at right angles to the attached portion thereof. This bracket member 10 may be secured to the bracket member 9 by rivets 10^a or other suitable securing means. The other leg 3 of the big bed section A is also provided with an additional bracket member 11 similar in all respects to the bracket member 10 just described. It is to be understood that although one end of the bed is shown and described, yet both ends of the bed are similarly formed and carry similar mechanism and, obviously, one end only need by described as shown.

When it is desired to mount the bed section A upon bed ends of a width corresponding to the width of the bed section (Fig. 3), the bed section is elevated to such a height that openings in the right angled portion of the brackets 10 and 11 align with corresponding openings in the legs 5 and 6 of the bed ends, respectively, after which suitable fastening devices, such as bolts and nuts 12 and 12^a, are applied as shown in Fig. 2 to hold the parts rigidly but detachably fixed in that position. The foregoing is readily discernible by reference to Figs. 1 and 3, Fig. 1 showing the bed section leg

2 and associated brackets applied as stated while Fig. 3 shows the bed section leg 3 and associated brackets mounted on a bed and leg in the manner described. The right angled portion of the bracket 10 may be provided with one or more openings to correspond to an opening or openings in the bed end leg 5 while the right angled portion of the bracket 11 is, preferably, provided with two vertically spaced openings. However, one opening only may be employed there also, if desired.

Bolts 13, one above the other, similar to those shown in Fig. 1, are passed through the bed end leg 6 and through corresponding openings in the right angled portion of the bracket 11 and held in place by suitable nuts 13[a] to secure these parts together. The right angled portions of the brackets 10 and 11 are adapted to lie, preferably, on the inner side of front end legs for obvious reasons. The height at which the brackets 10 and 11 may be attached to their associated mechanisms may be varied to suit the particular conditions of use.

In order to adapt the same bed section A to a bed end of varying widths, such as the bed end B of greater width shown in Fig. 1, I employ an additional and adjustable bracket member 14. This bracket member may comprise a flat piece of metal of a width corresponding to the width of the bracket 11, and one end of the same is provided with two vertically spaced openings which are adapted to align with the hereinbefore described openings in the right angled portion of the bracket 11. The opposite end of the bracket member 14 is provided with a plurality of longitudinally slotted and vertically spaced openings 15, preferably two in number, such slotted openings providing for horizontal adjustment of the bracket 14 for effecting true alignment between the parts secured together by the use of said brackets. This slotted opening construction also provides for such adjustment that bed ends of varying width may be applied and adjusted to the bed section without change of brackets. The slotted openings 15 are so positioned relative to each other as to properly align with the hereinbefore described openings in the said end leg 6. In mounting the bed section A on the bed section B of greater width, the bracket 10 is applied to the leg 5 in the manner already described. The bracket 14 is secured to the bracket 11 by the bolts 13 shown in Fig. 1. The slotted openings 15 in the bracket 14 are aligned with the openings in the leg 6 and suitable fastening devices, such as the bolts and nuts 16 and 16[a] are appled thereto and the parts secured together. The slotted openings 15 permit adjustment of the bracket 14 relative to the respective bed end leg 6 so that the bolts 16 may be readily passed through these parts to securely and detachably effect their connection. Upon the completion of the foregoing operations at each end of the bed, the bed is in condition for use.

Also, if such a condition should exist, it is obvious that the bracket 14 may be turned inwardly to a horizontal position opposite that shown in Fig. 1 to adjustably connect the bed section to bed ends of lesser width, the connection in this instance being effected in the same manner as described in connection with Figure 1.

From the foregoing it will be readily seen that I have provided mechanism whereby bed sections of predetermined size and shape may be used with bed ends of various widths and that provision is made for adjustably connecting such parts together so as to compensate for disalignment of parts and bed ends of varying widths without change in bracket members employed; all of which facilitates manufacture, handling of stock, installation, maintenance, replacement, and the like.

Having thus described my invention, what I claim is:

In a bed having a bed section and detachable bed ends, longitudinally projecting brackets secured to said bed section at each end thereof, and a laterally projecting bracket detachably secured to one of said first named brackets and to the respective bed ends, said last named bracket having slotted openings therein for adjustably securing the same to said bed ends.

2. The combination with a bed having a bed section with legs at each end thereof, and bed ends having legs and adapted to support said bed section, of a right angled bracket vertically carried by each of said bed section legs, another bracket carried by each of said first named brackets, each of which projects longitudinally of said bed section and has its projecting end formed for attachment to the respective leg of said bed ends, and an additional bracket detachably carried by one of said second named brackets at each end of said bed section and connected to the projecting end thereof for detachably securing said bed section to said bed end.

3. The combination with a bed having a bed section with legs at each end thereof, and bed ends having legs and adapted to support said bed section, of a right angled bracket vertically carried by each of said bed section legs, another bracket carried by each of said first named brackets, each of which projects longitudinally of said bed section and has its projecting end formed for attachment to the respective leg of said bed ends, and an additional bracket detachably carried by one of said second named brackets at each end of said bed section and connected to the projecting end

thereof for detachably securing said bed section to said bed end, each of said last named brackets having slotted attachment openings for adjustably attaching said bed section to bed ends of widths differing therefrom.

4. In a bed, a bed section adapted to be supported by detachable and variable width bed ends, a bracket unit carried by the bed section including means for attaching said section to bed ends of a width corresponding to the width of said section, and means carried by and separable from said unit for connecting said unit to a bed end of a width differing from the width of said bed section.

5. In a bed, a bed section, detachable bed ends, a bracket unit carried by said section, including a member attachable to bed ends of a width corresponding to the width of said section, and an additional bracket member removably carried by said unit for connecting said unit and section to bed ends having a width different from the width of said section.

6. In a bed, a bed section, detachable bed ends, a bracket unit carried by said section, including a member attachable to bed ends of a width corresponding to the width of said section, and an additional and reversible bracket member carried by said unit for connecting said unit and section to bed ends having a width greater or lesser than the width of said section.

7. In a bed, a bed section adapted to be supported by detachable and variable width bed ends, a bracket unit carried by the bed section including means for attaching said section to bed ends of a width corresponding to the width of said section, and means carried by and separable from said unit for connecting said unit to a bed end of a width differing from the width of said bed section, and a closed panel carried by the bed end for covering said means.

8. In a bed, a bed section, detachable bed ends, a bracket unit carried by said section, including a member attachable to bed ends of a width corresponding to the width of said section, and an additional bracket member removably carried by said unit for connecting said unit and section to bed ends having a width different from the width of said section, said additional bracket member including means for effecting an adjustable connection to said bed end.

9. In a bed, a bed section having depending vertical legs at its corners, vertical sheet metal brackets secured to said legs a substantial distance from the top of said legs and having portions extending longitudinally of the bed and portions extending laterally at right angles to the longitudinal portions with the laterally extending portions of the brackets on the front corner legs of the bed section extending a substantial distance beyond said legs, bed ends for carrying the bed section, the bed ends being substantially greater in width than the bed section and having supporting legs and closed panels behind which the brackets are hidden when the bed ends are attached to said brackets, and means for detachably securing the legs of the bed ends to the laterally projecting portions of said brackets, the front legs of the bed ends being connected to the outer free ends of the laterally projecting portions of the front brackets with such portions in close juxtaposition to said closed panels.

In testimony whereof, I have subscribed my name.

GENE HERZ.