April 21, 1959 H. J. SANDS 2,882,535

BEDFRAME AND CENTER SUPPORT THEREFOR

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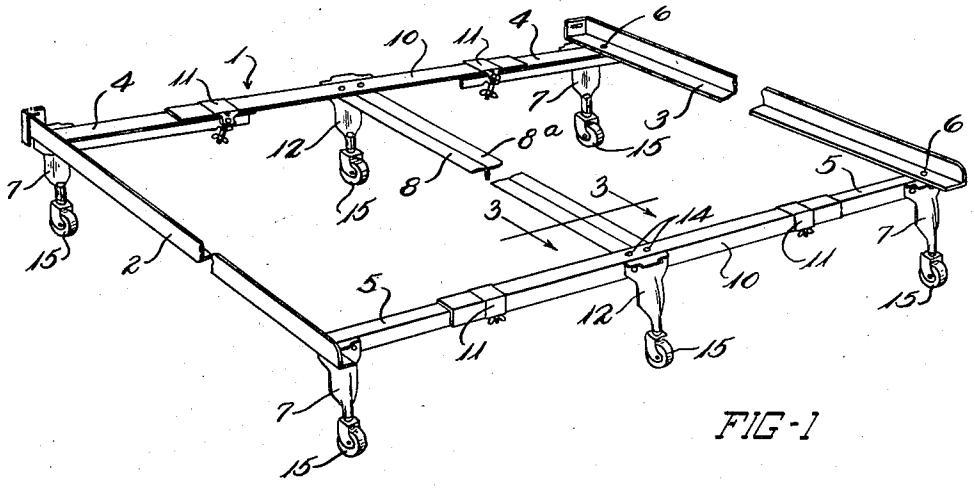


FIG-1

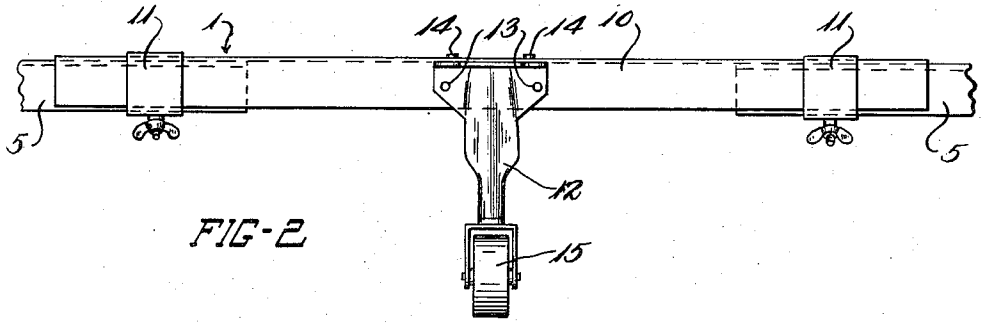


FIG-2

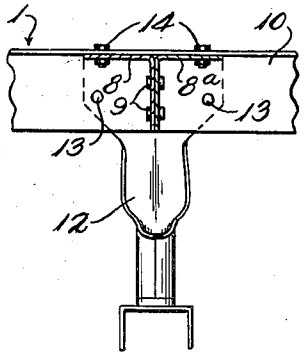


FIG-3

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BEDFRAME AND CENTER SUPPORT THEREFOR

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This invention relates to bedframes, especially to center supports as used in bedframes of the Hollywood bedframe style.

Heretofore there have been several different types of Hollywood style bedframes designed and produced commercially in relatively large quantities. These bedframes are normally made from metal angle iron sections that form an open centered rectangle defined by side and cross rails. A bed headboard may be suitably secured to the head portion of the bedframe, if desired. In many instances, it is desirable to provide center supports in this type of a bedframe as such center supports prevent any excessive deflection from occurring in the center portion of the bedframe where most load is applied. It also should be noted that these bedframes normally are shipped in a knocked down, or unassembled condition and that someone, usually an unskilled person, will assemble the bedframe components at the point of use.

As these bedframes are made and sold in large quantities and may be shipped a long distance between the point of manufacture and the ultimate point of sale, it is very desirable that the bedframes be shipped in a compact condition, but it also is very important that the bedframe components be capable of being readily assembled into a sturdy, substantially rigid bedframe with excellent load carrying characteristics.

It particularly is important that the center support units of the bedframes be compact and be readily shipped along with the remainder of the bedframe components in the usual container in which a conventional bedframe would be stored and shipped. Hence, the center support must be made from compact components that are quite sturdy and yet easily assembled into a unit readily secured in a bedframe.

In view of the foregoing, it is the general object of the present invention to provide a novel type of a center support for a bedframe wherein such center support unit is characterized by its compact, uncomplicated construction but by the sturdy support characteristics thereof.

Another object of the invention is to provide a center support for use in a bedframe wherein the center support is readily adapted to be shipped in a compact, disassembled condition, but be readily assembled by relatively unskilled labor into a solid, sturdy support frame.

Another object of the invention is to provide a center support unit for a bedframe wherein unitary cross rail sections are provided at the ends of the cross rail unit and where sturdy support legs are permanently and fixedly secured to the cross rail to protrude only a relatively short distance therefrom.

The foregoing and other objects and advantages of the invention will be made more apparent as the specification proceeds.

In order to understand the invention more completely, reference should be had to the accompanying drawings wherein one currently preferred embodiment of the principles of the invention is shown, and wherein:

Fig. 1 is a perspective view of a bedframe using a center support of the invention therein;

Fig. 2 is an end elevation of a cross rail member used in the center support of the invention; and

Fig. 3 is a vertical cross section taken on line 3—3 of Fig. 1.

When referring to corresponding parts shown in the drawings and described in the specification, corresponding numerals are used to facilitate comparison between such similar parts.

Attention now is particularly directed to the details of the structure shown in the drawings, and a Hollywood bedframe is indicated as a whole by the numeral **1**. This bedframe **1** includes a pair of side rails, or runners **2** and **3**, while head cross rail sections **4** extend from each of the side rails **2** and **3** and foot cross rail sections **5** extend from the bottom portions of each of the side rails **2** and **3**.

All of the side rails **2** and **3** and cross rail sections **4** and **5** normally are made from suitable angle iron and the cross rail sections **4** and **5** usually are pivotally secured to the side rails, but extend normally therefrom when operatively positioned. Usually each of the cross rail sections would be individually riveted to the side rails by one rivet **6** for pivotal action with relation thereto so that the bedframe can be shipped with the cross rail sections compactly folded in on the side rails. Any desired other means, such as bolts or the means shown in Leslie K. Jackson U. S. Patent Number 2,607,051, may be used to lock the cross rail sections to extend normally from the side rails.

Fig. 1 of the drawings best shows that support legs **7** are secured to each of the cross rail sections **4** and **5** and extend downwardly there from for supporting the bedframe **1** and any mattress or other structure carried thereby.

As an important feature of the invention, center support rails **8** and **8***a* are provided for the bedframe **1** and extend longitudinally thereof. These center support rails **8** and **8***a* normally each have a dependent vertically extending leg or flange and a horizontally directed support leg or flange, as best shown in Fig. 3 of the drawings. These support rails are permanently secured together in back to back relation, as by rivets **9**, so that a T-shaped, strong support unit is provided, which unit is compact and can easily be shipped with other bedframe components.

The center support rails **8** and **8***a* are secured to the remainder of the bedframe by means of a pair of center cross rail sections **10**, each of which comprises a length of conventional angle iron. These cross rail sections **10** usually are made of the same material and of the same size and weight angle as the cross rail sections **4** and **5** and are adapted to be telescopically engaged therewith, as best shown in the drawings. The cross rail sections **10** likewise form compact, easily stored and shipped items.

Some adjustable clamp strap means, such as the clamp strap unit **11**, is provided over the telescoped portions of the cross rail members of the bedframe so that such clamp strap unit **11** can secure the cross rail sections in desired assembled relation.

Fig. 2 of the drawings best shows that a support leg **12** is permanently secured to each of the cross rail sections **10**, on the outer surface of the dependent flange of such part of the center support unit. These legs **12** permanently engage relatively widely spaced portions of the cross rail section, as by rivets **13**, to have secure, well reenforced engagement therewith and provide minimum overall dimensions for that portion of the center support unit when shipped in unassembled form. The center support rails **8** and **8***a* and unit made therefrom preferably removably engage these cross rail sections **10**, as by means of bolts **14**, so that the center support unit can be readily assembled at the point of use of the bedframe **1**. It should be

noted that the unit of the support rails 8 and 8*a* extends in under the horizontal flanges of the cross rail sections 10 to avoid weakening the center rails in any manner at the connection. Also, the support legs 12 then can be positioned on the center axis of the center support rail unit.

Any desired casters 15, glides or similar means can be positioned by the support legs 7 and 12 to aid in carrying load on the bedframe.

From the foregoing, it will be seen that the conventional components of the bedframe 1, including the side rails 2 and 3 and the cross rail sections 4 and 5, are of regular construction. The center support is made from three members, including a pair of the cross rail section and leg units and the center rail unit made from the support rails 8 and 8*a*. Such members can readily be assembled with each other and then be secured to the remainder of the bedframe to complete the bedframe. The invention uses a special center cross rail section 10 adapted to interlock readily with the center support rail, or rails and form a sturdy unit at the point of use of the center support and bedframe. Preferably the support legs 12 are permanently secured to the center cross rail section 10 but the center support rail, or rails are removably held in place to permit compact storage of the unit until ready to be used. Hence, a sturdy bedframe has been provided wherein an attractive center support unit is easily secured thereto. This center support unit is made from members that are compact and easily stored or shipped, but is of a sturdy construction for giving effective load support in the center portion of the bedframe 1. Thus it is thought that the objects of the invention have been achieved.

While one complete embodiment of the invention has been disclosed herein, it will be appreciated that modification of this particular embodiment of the invention may be resorted to without departing from the scope of the invention as defined in the appended claims.

What is claimed is:

1. In a bedframe, a pair of side rails, cross rail sections secured to said side rails and adapted to extend inwardly of the bedframe, a center cross rail for each end of frame, said center cross rails each having a dependent and a horizontal flange thereon, a support leg secured to the outer surface of the dependent flange of each of said center cross rails, a center support of T-shape in section and having a horizontal flange and a dependent flange and comprising a pair of metal angles fixedly secured in back to back position, means securing the horizontal flange of said center support to the horizontal flanges of said center cross rails to extend therefrom, said center cross rail at each end of the frame extending normally from said center support in both directions, said support legs on said center cross rail sections being positioned on the longitudinal axis of said center support, and means securing said cross rail sections to said center cross rails to form a bedframe.

2. In a bedframe, a pair of side rails, cross rail sections secured to said side rails to extend normally therefrom, a center cross rail for each end of the frame, said center cross rails each having a dependent flange thereon, a support leg secured to and contacting only the dependent flange of each of said center cross rails, a center support of T-shape in section, means securing said center support to said center cross rails at the ends thereof to extend therefrom normally thereto, said center support having a dependent flange and the said dependent flange of each of said center cross rails being abutted against the ends of said center support including the said dependent flange thereof to reenforce the connection between said center cross rails and said center support, said support legs on said center cross rail sections being positioned on the axis of said center support, and means securing said cross rail sections to said center cross rail.

3. A bedframe comprising a pair of side rails, cross rail sections pivotally secured to said side rails adjacent each end thereof, center support means, and means securing said center support means to said cross rail sections to complete the bedframe, said center support means including a center bar unit of T-shape in vertical section having horizontal and dependent flanges, a center cross rail angle secured to said center bar unit at each end thereof intermediate the ends of said center cross rail angles to extend from said center bar unit in opposite directions normally to the longitudinal axis thereof, said center cross rail angles having horizontal and vertical flanges with such vertical flanges abutting against the ends of said horizontal and dependent flanges of said center bar to reenforce the connection between said center bar and said center cross rail angles, the horizontal flanges of said center cross rail angles extending over and contacting said horizontal flange of said center bar unit and being secured thereto, and support legs secured to and contacting only the outer surfaces of said vertical flanges of said center cross rail angles and lying on the longitudinal axis of said center bar unit.

4. A bedframe as in claim 1 wherein said support legs have relatively widely spaced portions thereon extending normal to the longitudinal axis of said center support and securing means for said support legs extend through said portions.

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