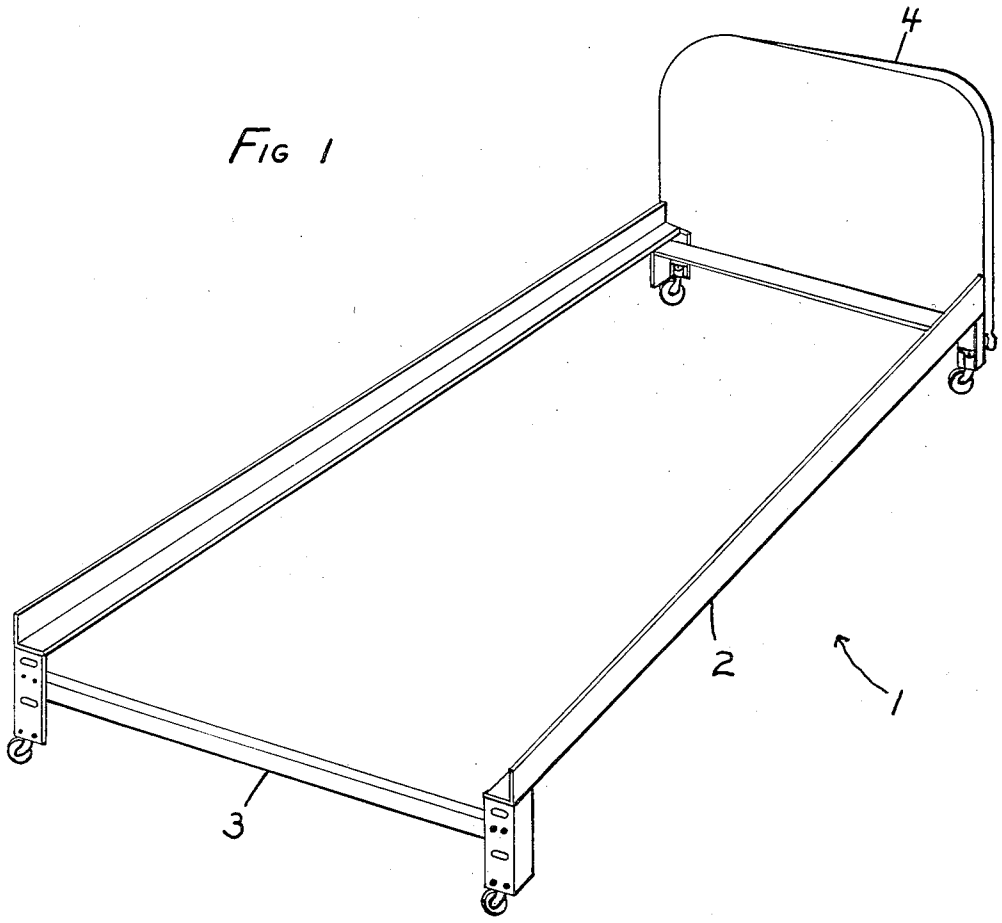
July 23, 1957 H. J. SANDS 2,799,868

BEDFRAMES WITH SUPPORT LEGS FOR ENGAGING BED HEADBOARDS

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FIG 1



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FIG 5

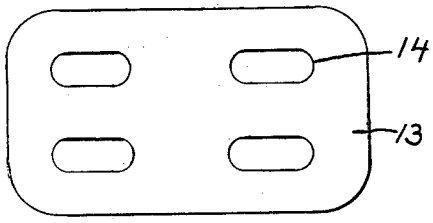


FIG 3

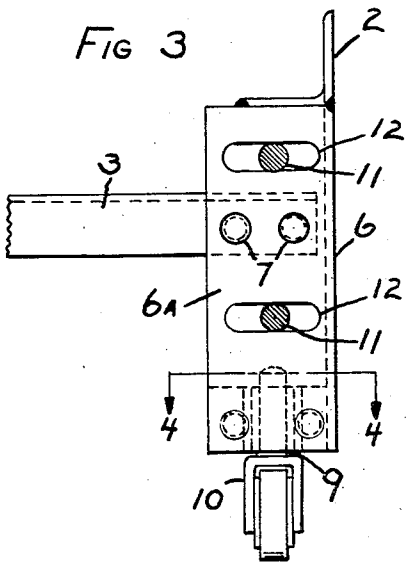


FIG 2

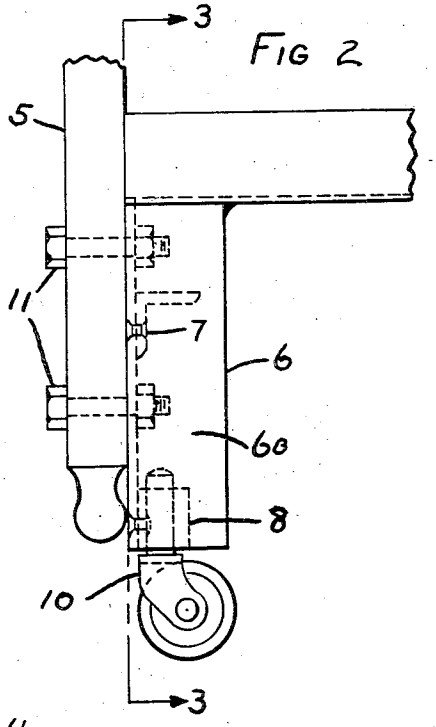
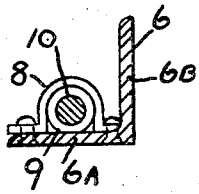


FIG 4



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2,799,868

BEDFRAMES WITH SUPPORT LEGS FOR ENGAGING BED HEADBOARDS

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3 Claims. (Cl. 5—132)

This invention relates to bedframes, especially to Hollywood type bedframes with special bracket-type support legs adapted for convenient engagement with a bed headboard.

Bedframes to which this invention relate usually are made from metal angles secured together in a suitable manner and that have caster support legs or other support means usually provided therefor. Preferably these bedframes are shipped in a disassembled or knocked-down condition and are assembled by relatively unskilled laborers at the place where the bedframe is to be used. It is difficult to secure relatively strong bedframes from minimum weight and strength angles because of the limitations in securing the bedframe components together in a fixed or rigid manner at the point of use. Also, in many instances the bedframes must be made to have adjustable width, whereas some bedframes are used for carrying bed headboards thereon and this materially adds to the stresses in the bedframe.

Heretofore various types of supplemental members have been provided on the bedframe to facilitate the positioning of a bed headboard thereon. Also, many types of bedframes made and sold commercially heretofore have been composed of side rail means which can only be used on either the right or the left side of the bedframe and such specialized construction for side rails is objectionable because it requires particularly careful packaging and selection of the bedframe means to be included in one bedframe unit, and with such bedframes being somewhat limited in the uses that can be made of the bedframes.

The general object of the present invention is to avoid and overcome the foregoing and other difficulties with present styles of bedframes, and to provide a Hollywood style bedframe characterized by the use of interchangeable left and right side rail means in the bedframe and by the sturdy, simple construction of the bedframe.

Another object of the invention is to provide a bedframe wherein the leg or support means for the bedframe likewise comprise the positioning bracket means for a bed headboard that may be carried by the bedframe and be positioned thereby.

A further object of the invention is to use bracket type support legs or plates in a bedframe with such bracket support plates being welded to the side rails of the bedframe at each end thereof and with the ends of the side rails and a surface of the bracket support plate being aligned to provide a common bearing surface for engaging bed headboard means.

A further object of the invention is to provide a simple type of a bedframe which when assembled is of sturdy construction.

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 completely, a currently preferred embodiment of the invention is shown in the accompanying drawings, wherein:

Fig. 1 is a perspective view of a bedframe embodying the principles of the invention carrying a bed headboard;

Fig. 2 is an enlarged side elevation of an end portion of the bedframe of Fig. 1;

Fig. 3 is a fragmentary vertical section taken on line 3—3 of Fig. 2;

Fig. 4 is a horizontal section taken on line 4—4 of Fig. 3; and

Fig. 5 is an elevation of an attachment plate for use with the bedframe of the invention.

The invention relates to the combination of a pair of bedframe side rails, a pair of bedframe cross rails, a bracket support plate or leg usually welded to each end of the side rails and being of angular shape in section with one edge of the bracket being flush with an end of the side rail with which such bracket is associated, means securing the cross rails to the support brackets, caster means carried by each of the support brackets, a bed headboard, and means engaging the support brackets at corresponding ends of the side rails to secure a bed headboard thereto.

The bedframe of the invention is of relatively simple, inexpensive construction, and it provides a box construction by use of the support brackets for connecting the cross rails and side rails together at spaced portions of the brackets. Also, the components of the bedframe are interchangeable with other similar bedframe components and with a sturdy, easily assembled bedframe being provided.

With reference to the details of the structure shown in the accompanying drawings, a bedframe is indicated as a whole by the numeral 1 with such bedframe being of the so-called Hollywood style and comprising a pair of side rails 2 and a pair of cross rails 3. Usually the side rails and cross rails of the bedframe are made from metal angles of standard construction and of right angular shape in cross section. The drawing shows that the bedframe 1 may carry or "float" a bed headboard 4 thereon. This bed headboard 4 has legs 5 provided for supporting the bed headboard and by which the bed headboard is engaged with the bedframe 1, as hereinafter described.

As an important feature of the invention, the bedframe 1 is provided with a plurality of bracket type support legs or plates 6 with one of such support legs or plates 6 being engaged with each end of each of the side rails 2, as shown in the drawings. Fig. 4 of the drawings best shows that the bracket support plates 6 are of right angular shape in section normally and that an end leg 6*a* is provided on each support bracket flush with the end surfaces of the side rails with which such support legs are associated. Side legs 6*b* of the support plates of the invention preferably extend longitudinally of the side rails 2 and usually are aligned with the margins thereof to provide a neat smooth connection between the support plates and the side rails and with the support legs 6 being usually welded to the side rails 2 at the factory producing the bedframes 1.

It should be noted that both of the side rails 2 have support legs or plates 6 at each end thereof so that such side rails 2 are of interchangeable left and right construction. Figs. 2 and 3 of the drawings clearly bring out that the cross rails 3 are secured to the axially inner surfaces of the bracket support legs or plates 6 on the end legs 6*a* thereof. These cross rails 3 usually are in spaced relationship vertically to the side rails to provide a box or reinforcing relationship between the side rails 2, cross rails 3, and the support plates 6 connecting such rails together. Normally the surface of one leg of the cross rails 3 is placed against the inner surface of the support leg to provide a solid engagement between such members. Any suitable means, such as screws, or rivets 7 can be used to extend through the contacting parallel surfaces of the cross rails 3 and the end legs 6*a* to have the desired

engagement therebetween. Tapped and countersunk holes may be provided in either or both the cross rail or support plate for engaging the rivets or screws 7 so that such engagement means would not protrude from the support plate 6. Such a construction would permit the legs 5 of the bed headboard 4 to lie flush against the outer surface of the bracket support plates 6, as shown in Fig. 2. As a further variation, the screws or rivet heads may be allowed to protrude outwardly of the surface of the legs 6*a* and the legs 5 of the headboard 4 would rest solidly on the said heads of the rivets or screws.

As another feature of the invention, a relatively inexpensive but sturdy type of a caster engaging means is integrally secured to the support legs or plates 6 and Fig. 4 shows that a U-shaped caster strap 8 can, for example, be riveted to each of the support plates 6 and engage or support a caster socket 9 to position casters 10 at the lower ends of the support plates 6. Obviously other types of support means may be engaged with the support legs 6, or they may have other types or shapes of lower surfaces for direct support action, as desired.

Bolts 11 are shown extending through the bed headboard's legs 5 and the support legs 6 to engage the bed headboard 4 to such support legs 6. Preferably a pair of parallel, horizontally directed slots 12 are provided in each of the support legs 6*a* for engaging the bolts 11 used to secure the bed headboard to the remaining portion of the bedframe. The slots 12 permit some adjustment between the bedframe 1 and the bed headboard in case the bed headboard is of slightly different width than the bedframe.

In some instances, it may be desired to provide means for varying the width of the bedframe 1 so that modification plates 13, as shown in Fig. 5, may be provided for use with the bedframe 1. These plates 13 have pairs of laterally spaced slots 14 provided in vertically spaced portions thereof so bolts can secure such modification plates 13 to the bracket support legs 6 of the bedframe and have the modification plates 13 extend laterally from the bedframe 1 for receiving bolts or other means for securing a bed headboard, different in width than the bedframe 1, to the bedframe and "floating" the bed headboard with relation to the floor or other support provided.

It will be realized that other types of cross rails may be provided for use in the bedframe 1, if desired, but that a novel type of a support leg or plate is provided by the bedframe 1. This support bracket is of relatively inexpensive construction and serves not only to secure the cross rails to the side rails, but also to provide caster or support engaging means for the bedframe, as well as to provide plate surfaces by which a bed headboard can be secured to the bedframe. Thus it is contended that the objects of the invention may be resorted to without departing from the scope of the invention as defined in the appended claims.

I claim:

1. In a bedframe, a pair of horizontal side rails, identical vertical bracket support plates welded to said side rails at each end thereof to provide a symmetrical structure therefrom, said bracket support plates being angular in horizontal section with the outer surface of one leg thereof being flush with the end of the side rail and the end of the other leg thereof abutted against the lower surface of the one of said rails to which said bracket support plate is secured, horizontal cross rail means, means securing said cross rail means to said one leg of said bracket support plates on the inner surfaces thereof, said securing means being flush with the outer surface of said bracket support plates, said bracket support plates having a pair of slots therein in said one leg thereof, a bed headboard, and means extending through said slots to secure said bed headboard only to said bracket support plates and against the end of said side rails.

2. In a bedframe, a pair of horizontal side rails, a vertical bracket support plate secured to said side rails at each end thereof to make interchangeable assemblies therefrom, said bracket support plates being angular in horizontal section with the outer surface of one leg thereof being flush with the end of the side rail and the end of the other leg thereof abutted against the lower surface of the one of the said rails to which the support plate is secured, horizontal cross rail means, means securing only said cross rail means to said one leg of said bracket support plates on the inner surface thereof and extending between said side rails, said securing means being flush with the outer surface of said bracket support plates, said bracket support plates each having a pair of horizontally extending slots therein in said one leg thereof, a bed headboard, and means extending through said slots to secure said bed headboard to corresponding ones of said bracket support plates at equivalent ends of said side rails whereby an adjustment in width is available between said bed headboard and said bracket support plates and where said bed headboard contacts both said corresponding bracket support plates and the ends of said side rails to be positioned thereby.

3. In bedframe apparatus, a pair of side rails, identical bracket support plates welded to said side rails at each end thereof to make interchangeable right and left side rails, said bracket support plates being angular in section with the outer surface of one bracket leg being flush with the end of the side rail to which it is secured and the end of the other bracket leg being abutted against the lower surface of said side rail, cross rail means, means securing said cross rail means to said one leg of said bracket support plates on the inner surface thereof to extend between pairs of such plates at each end of the bedframe and complete the bedframe, said securing means lying flush with the outer surfaces of said bracket support plates, said support plates having a pair of slots therein for receiving headboard engaging means therein to secure a headboard to either desired end of the bedframe and wherein both the ends of said side rails and said bracket support plates can contact a headboard to aid in positioning it on the bedframe and support means carried by the lower ends of said bracket support plates.

References Cited in the file of this patent

UNITED STATES PATENTS

1,551,984	Dyke	Sept. 1, 1925
1,595,214	Noelting et al.	Aug. 10, 1926
1,694,940	Herz	Dec. 11, 1928
2,523,988	Fox	Sept. 26, 1950
2,644,960	Blanke et al.	July 14, 1953
2,656,548	Blanke et al.	Oct. 27, 1953