March 18, 1958 J. E. ENTWISTLE 2,826,765

RABBETED TYPE BEDFRAME

Filed Feb. 4, 1954

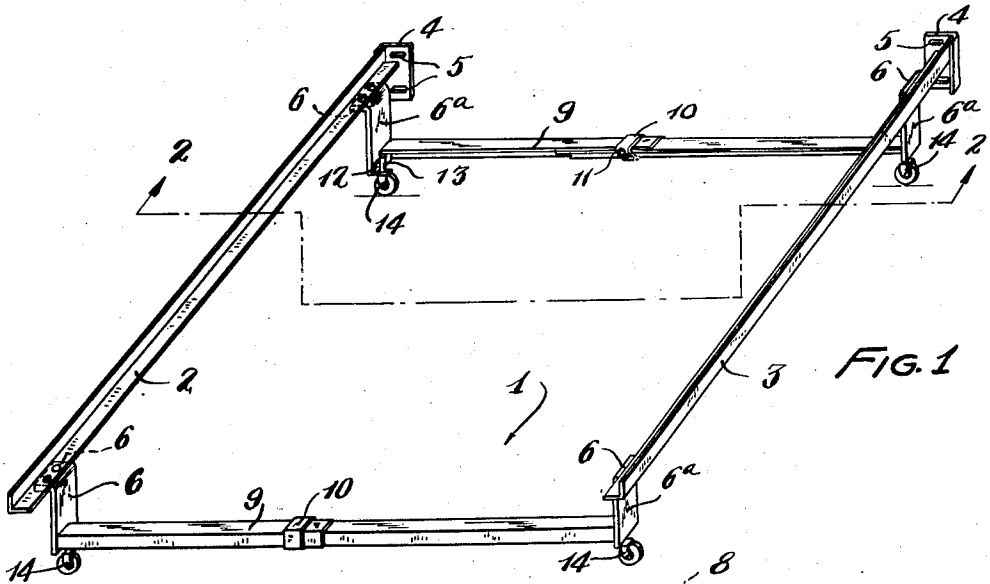


FIG. 1

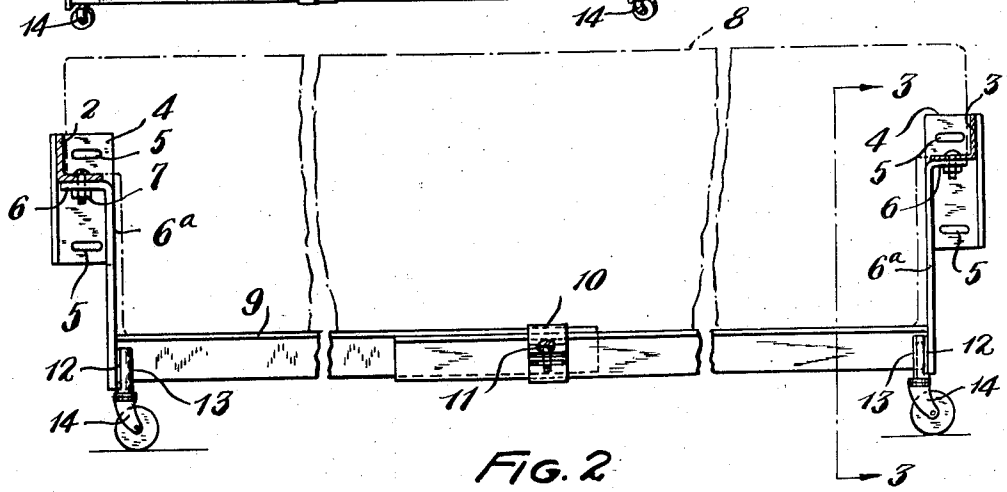


FIG. 2

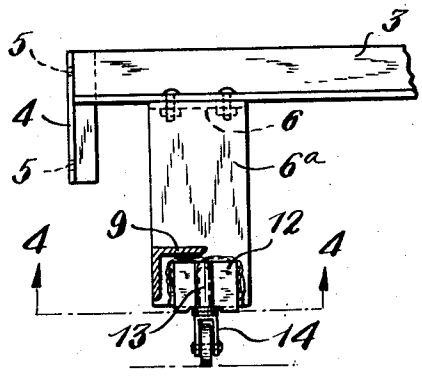


FIG. 3

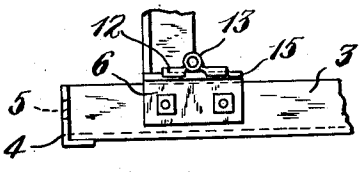


FIG. 4

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United States Patent Office 2,826,765 Patented Mar. 18, 1958

2,826,765

RABBETED TYPE BEDFRAME

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Application February 4, 1954, Serial No. 408,242

3 Claims. (Cl. 5—200)

This invention relates to bedframes, and especially to bedframes of the Hollywood type wherein upper support surfaces are provided in the bedframe, and lower cross rail supporting surfaces are also provided in the bedframe for engaging with a rabbeted type of a mattress and/or bed spring unit to support it at a plurality of points.

Heretofore there have been various special types of mattresses and/or spring units produced and sold in relatively large quantities. Some of such special mattress or spring units have a more-or-less rabbeted construction wherein the mattress or spring unit has a lower substantially rectangular section and an upper and wider substantially rectangular section formed integrally therewith so that supporting shoulders are provided on the unit intermediate the top and bottom thereof. Such mattress and/or spring units have been used in quantity in some installations, such as hotels, and it has been difficult, if not impossible, to provide Hollywood type bedframes for satisfactory use with such units.

The general object of the present invention is to provide a Hollywood type of a bedframe which is characterized by the support members provided in the bedframe at vertically spaced portions thereof.

Another object of the invention is to provide a bedframe that is especially adapted for engaging with mattress and/or spring units having laterally protruding support shoulders therein and reduced width base portions.

Further objects of the invention are to provide a relatively sturdy but light weight type of a Hollywood bedframe which can be readily collapsed for shipment of the bedframe and be assembled by relatively unskilled labor; to provide a sturdy connection for securing angular in section cross rails to support arms of the bedframe, and to provide relatively inexpensive, solidly positioned caster sockets on the support arms of the bedframe.

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

Attention now should be had to the accompanying drawings, wherein:

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

Fig. 2 is an enlarged vertical section taken on line 2—2 of Fig. 1 and with a mattress and/or spring unit being indicated in dotted lines on the bedframe;

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

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

The present invention in general relates to a bedframe that includes a pair of side rails each of which has a support surface, a pair of support arms secured to each of the side rails with one support arm being adjacent each end of the side rails, the support arms extending downwardly from and normal to the support surfaces and with the support arms being positioned laterally inwardly of the support surfaces for aiding in engaging a mattress unit carried by the bedframe. Cross rail means are secured to

lower end portions of the support arms and extend therebetween below the support surfaces of the side rails for engaging a bed spring unit, and support means are operatively carried by the support arms for positioning the bedframe.

When referring to corresponding parts in the following specification and the accompanying drawings, corresponding numerals will be used to facilitate comparison between the drawings and specification.

Attention now is directed to the details of the structure of the present invention, and a bedframe is shown and is indicated as a whole by the numeral **1**. This bedframe **1** includes a pair of side rails **2** and **3** each of which usually is of right angular shape in section and includes a horizontally directed support surface or leg, and a vertically directed, laterally outer support surface used to retain a mattress or spring unit in engagement with the frame **1**. The bedframe **1** usually includes end plates **4** which are secured to end portions of the side rails **2** and **3** and have slots **5** provided therein to facilitate engaging or securing a bed headboard to the bedframe **1** by any desired type of connection means.

As a feature of the present invention, the bedframe **1** includes support arms **6** that usually are made from relatively wide flat metal sheets or bars, the arms being positioned adjacent each end of each of the side rails **2** and **3**. Preferably these support arms **6** are of such a width that a pair of bolts **7**, or similar means, can be used for removably securing the support arms **6** to the under surfaces of the side rails **2** and **3**. By the use of a plurality of bolts for each support arm **6**, a sturdy connection with relatively large contact area is provided between the side rails and support arms and no deflection or bending of the support arms will readily occur with relation to the side rails. Fig. 2 best shows that an end portion of each of the support arms **6** lies flush against the lower surface of the side rails so that a solid or fixed engagement is secured between the support arm and its positioning side rail.

Fig. 2 of the drawings also best shows that each of the support arms **6** extends downwardly from the cross rails **2** and **3** and normally is positioned laterally inwardly from each such side rail and extends normally thereto. These vertically extending portions **6a** of the support arms may engage with vertically extending portions of a mattress and/or spring unit **8**, engaged with the bedframe **1**, to retain it against lateral movement.

In order to form the primary supporting portion of the bedframe **1**, a pair of cross rail means are secured to and extend between lower portions of the support arms **6** for completing the bedframe **1**. The cross rail means in this instance comprise a cross rail section **9** of right angular shape in section and with each cross rail section having a horizontally directed upper supporting surface, and a vertically downwardly extending reinforcing leg. The areas of the ends of these cross rail sections **9** are abutted against the lower portions of the support arms **6** and usually are secured, as by welding, thereto. Thus a sturdy, braced or reinforced connection is provided between the support arms and the cross rail sections with the support arms extending vertically from the cross rail section in both directions. The laterally inner ends of the cross rail sections **9** are in telescoped engagement with each other in superimposed relation and are held securely in such position by a suitable clamp strap **10**. The clamp strap **10** has a lock bolt **11** associated therewith for retaining the superimposed end portions of the cross rail sections in desired fixed engagement.

Conventional support means are provided for the bedframe **1** and normally comprise some type of glides or casters. Thus a caster socket or engaging bracket **12** is shown welded to the vertically extending portions **6a** of

each of the support arms **6** below the cross rail sections **9**. These brackets **12**, as indicated in Fig. 4, each have a tubular portion **13** provided therein which portion **13** is adapted to engage or receive a caster **14** for positioning it on the bedframe **1**. Preferably lower lugs **15** are provided on the bracket **12** and are folded or bent around the lower ends of the support arms **6** and usually are welded thereto to facilitate obtaining a tight, solid engagement of this caster engaging bracket **12** with the support arms.

The bedframe of the invention thus provides a pair of side rails **2** that may engage with shoulder portions of the mattress and/or spring unit **8** carried by the bedframe to support such unit **8**, and/or such unit **8** may be supported on the cross rail sections **9**. The upper portions of the cross rail sections **9** combine to define one horizontal plane parallel to and spaced from and appreciably below a second horizontal plane defined by the horizontally directed legs of the side rails **2** and **3**.

The support arms **6** are of substantially right angular cross section and are made from metal sheets or bars bent and formed to the shapes shown and described.

From the foregoing, it is submitted that a sturdy, relatively inexpensive bedframe has been provided particularly adapted for supporting mattress and/or spring units like the unit **8** disclosed herein. This bedframe can be shipped in a knocked-down, or unassembled condition and it can be relatively easily assembled from a compact shipping carton by inexpensive labor. The support arms **6** usually would be bolted to the side rails at the point of assembly of the bedframe. The bedframe **1** when assembled would provide a sturdy, relatively inexpensive but lightweight bedframe particularly adapted for engaging a mattress unit as disclosed herein, or other similar units requiring support at a plurality of spaced vertical points, or for the positioning of a mattress or spring close to the floor for a low height bed.

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 I claim is:

1. A rabbeted type bedframe comprising a pair of angular in section side rails each having an upwardly directed leg and a horizontally directed leg, pairs of support arms secured to the lower surface of each of the horizontal legs of said side rails and extending downwardly therefrom, said support arms being made from flat metal strips and with an arm being positioned adjacent each end of said side rails, cross rail means of angular shape in section secured at their ends to and with their end surfaces abutted against said support arms, said cross rail means including horizontally directed support surfaces defining a plane spaced from and below a plane defined by the horizontal legs of said side rails so that a rabbeted base spring unit can be carried by the frame and be supported both by said side rails and said cross rails, vertically extending caster brackets on said support arms and having tubular portions thereon, and caster means positioned by the tubular portion of said caster brackets.

2. A rabbeted type bedframe comprising a pair of angular in section side rails each having an upwardly directed outer leg and a horizontally directed leg, pairs of support arms secured to each of the horizontal legs of said side rails and extending downwardly therefrom, said support arms extending vertically laterally inwardly from said horizontal leg and with support arms being positioned adjacent each end of said side rails, and cross rail means secured to said support arms, said cross rail means including upper horizontally directed support surfaces defining a plane spaced from and below a plane defined by the horizontal legs of said side rails so that an irregular base spring unit can be carried by the frame and be supported both by said side rails and said cross rails, the vertically extending portions of said support arms positioned laterally inwardly of said horizontal legs being provided for engaging side portions of a supported spring unit.

3. A rabbeted type bedframe comprising a pair of angular in section side rails each having an upwardly directed outer leg and a horizontally directed leg, pairs of support arms secured to each of the horizontal legs of said side rails and extending downwardly therefrom, one of said support arms being positioned adjacent each end of said side rails, cross rail means of angular shape in section welded at their ends to and with their entire end surfaces abutted against said support arms, said cross rail means including horizontally directed support surfaces defining a plane spaced from and below a plane defined by the horizontal legs of said side rails so that a rabbeted base spring unit can readily be carried by the frame and be supported both by said side rails and said cross rails, plate-type caster brackets positioned against and welded to said support arms below said cross rails, and support means positioned by said caster brackets.

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