

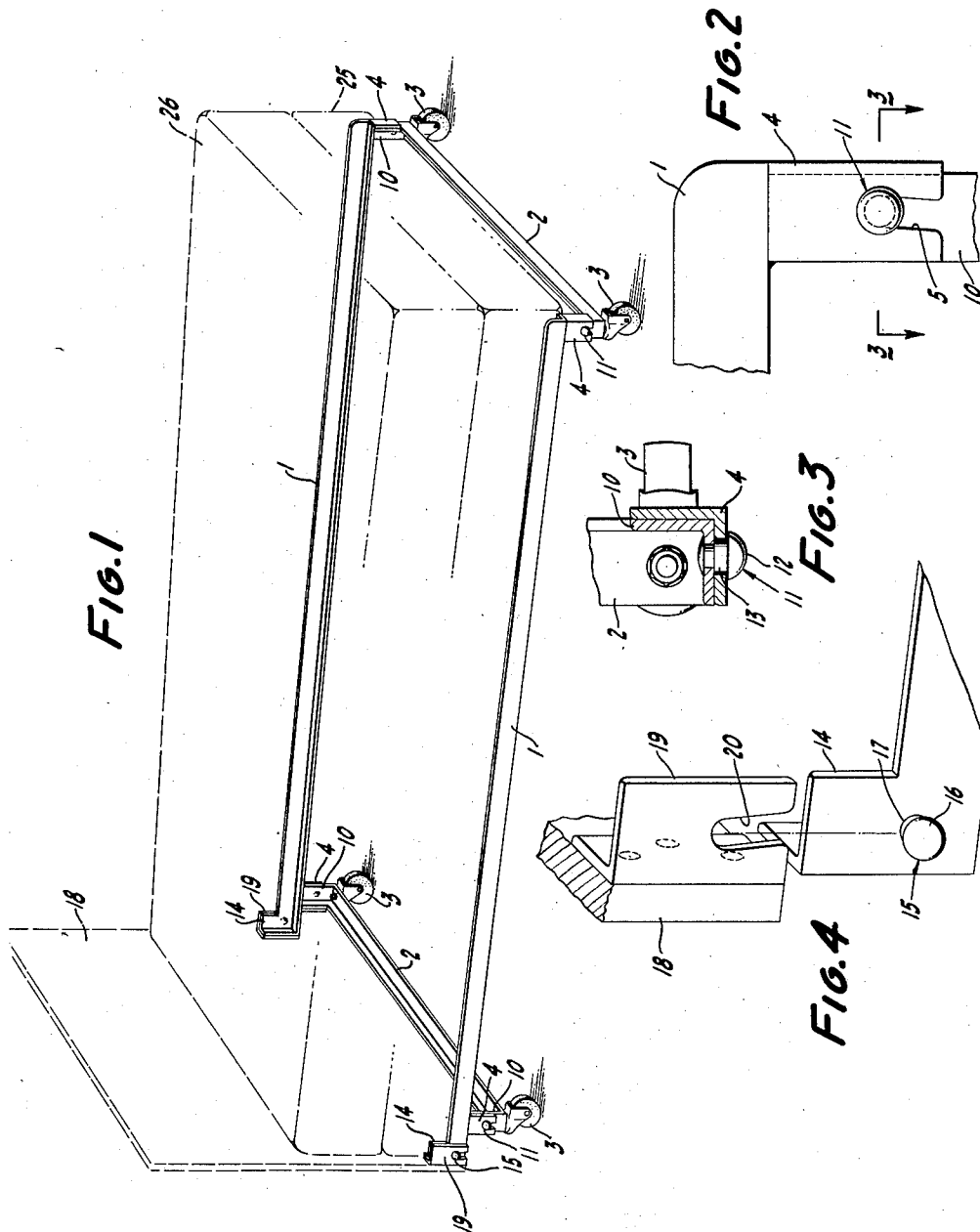
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BED FRAME

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BED FRAME

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2 Claims. (Cl. 5—131)

1

This invention relates to a bed frame, and more particularly to a bed frame of the Hollywood type comprising longitudinal bars and transverse or end bars detachably secured thereto, such framework being mounted upon casters and being adapted to support springs and a mattress.

In bed frames of this type, it is desirable that the frame be easily mountable and demountable. It is also important that the bed frame, when mounted, be secure and that there be as little play as possible in the parts which are joined.

Heretofore it has been the practice to join the longitudinal and end bars of such bed frame by means of nuts and bolts or the like. This and other means of joining together the component parts of the bed frame have been disadvantageous, because of difficulty in mounting and demounting the frame, or because of development of play in the parts, or for both reasons.

It is an object of the present invention to provide a bed frame of the character described which is easily mounted and demounted, yet which constitutes a rigid structure when in the mounted condition.

It is a further object of the invention to provide a means of locking together or engaging the individual members of a demountable bed frame, which is easy to manipulate and which provides a firm, rigid connection between the parts.

These and other objects of the invention will be apparent from the ensuing description and the appended claims.

The invention will be better understood by reference to the drawings in which one form which the invention may assume is shown. In the drawings,

Fig. 1 is a perspective view of the complete assembly of the invention, including the frame, the headboard, springs and a mattress.

Fig. 2 is an enlarged, fragmentary view of one corner of the frame, at the foot of the bed.

Fig. 3 is a transverse cross-section taken along the line 3—3 of Fig. 2.

Fig. 4 is an exploded view showing the manner in which the headboard is attached to the frame.

Referring now to the drawings, the framework comprises longitudinal or side bars 1 which, as shown, are conveniently in the form of angle irons, and transverse or end bars 2, also in the form of angle irons. Casters 3 are secured to opposite ends of the transverse bars 2, as shown. Each side bar 1 is provided, at each end, with a downwardly extending flange or bracket 4 secured thereto by any suitable means, such as

2

welding. Each such flange is in the form of a short angle section and it is provided on one face with a diagonal slot 5, which slants downwardly and inwardly as shown more clearly in Fig. 2. Secured to and extending upwardly from opposite ends of each end bar 2 is a similar flange or bracket 10, in the form of a short angle section, one face of which is provided with a pin 11 having an enlarged head 12 and a shank 13. Each pin 11 is complementary to, and forms a loose sliding fit with the diagonal slot 5 in the corresponding bracket 4.

It will thus be seen that the framework comprises four members, that is, two side bars 1 and two end bars 2, and that these members are easily and securely assembled by aligning the side bars with the end bars so as to register the diagonal slots 5 with the pins 11, and then bringing the slots into engagement with the pins, as shown. This results not only in securing the component parts of the framework together, but, because the slots are diagonal and are directed inwardly, the end bars are drawn somewhat together. A secure locking of the structure is thus obtained. Nevertheless, the framework is easily disassembled.

As also shown, the side bars 1 extend somewhat forwardly of the head of the framework and are provided with upwardly extending flanges or brackets 14 similar to the brackets 10 on the end bars 2, and each bracket 14 is provided with a pin 15 having a head 16 and a shank 17. A headboard 18 is also provided having at its lower edge and on opposite sides brackets 19, each having a diagonal slot 20 formed therein, similarly to the brackets 4 on the side bars 1. The headboard is thus detachably secured to the framework, by engaging the diagonal slots 20 with the pins 15.

The structure thus described is adapted to accommodate box springs 25 and a mattress 26, as shown. It is also adaptable, by a minimum of modification, to accommodate coil springs (not shown), in which case the end bars 2 would be inverted and the casters 3 appropriately relocated.

It will thus be seen that there has been provided a demountable framework for beds and the like, which is easily mountable and demountable, which avoids the use of nuts and bolts or the like, and which in the mounted condition, provides a strong rigid structure.

While I have shown the preferred form of my invention, it is to be understood that various changes may be made in its construction by those skilled in the art without departing from the

3

spirit of the invention as defined in the appended claims.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. A bed frame, comprising a pair of side rails of right angular section and a pair of end rails, right angular mounting brackets fixed to and extending vertically downwardly from the ends of the side rails, complementary right angular mounting brackets fixed to and extending vertically upwardly from the end rails, one set of brackets being formed with pins and the other set of brackets being formed with slots freely engageable with said pins, said slots being biased so that when the rails are mounted and the pins are driven into the slots, a clamping force will be created along the length of the slotted rails to hold the rails rigid without wedging the pins in the slots.

2. A bed frame, comprising a pair of side rails and a pair of end rails, right angular mounting brackets fixed to and extending vertically downwardly from the ends of the side rails, complementary right angular mounting brackets fixed to and extending vertically upwardly from the ends of the end rails, one set of brackets being formed with pins and the other set of brackets being formed with slots freely engageable with said pins, said slots being biased so that when the rails are mounted and the pins are driven into the slots, a clamping force will be created along the length of the slotted rails to hold the rails rigid without wedging the pins in the slots.

4

mental right angular mounting brackets fixed to and extending vertically upwardly from the ends of the end rails, one set of brackets being formed with pins and the other set of brackets being formed with slots freely engageable with said pins, said slots being biased so that when the rails are mounted and the pins are driven into the slots, a clamping force will be created along the length of the slotted rails to hold the rails rigid without wedging the pins in the slots.

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