

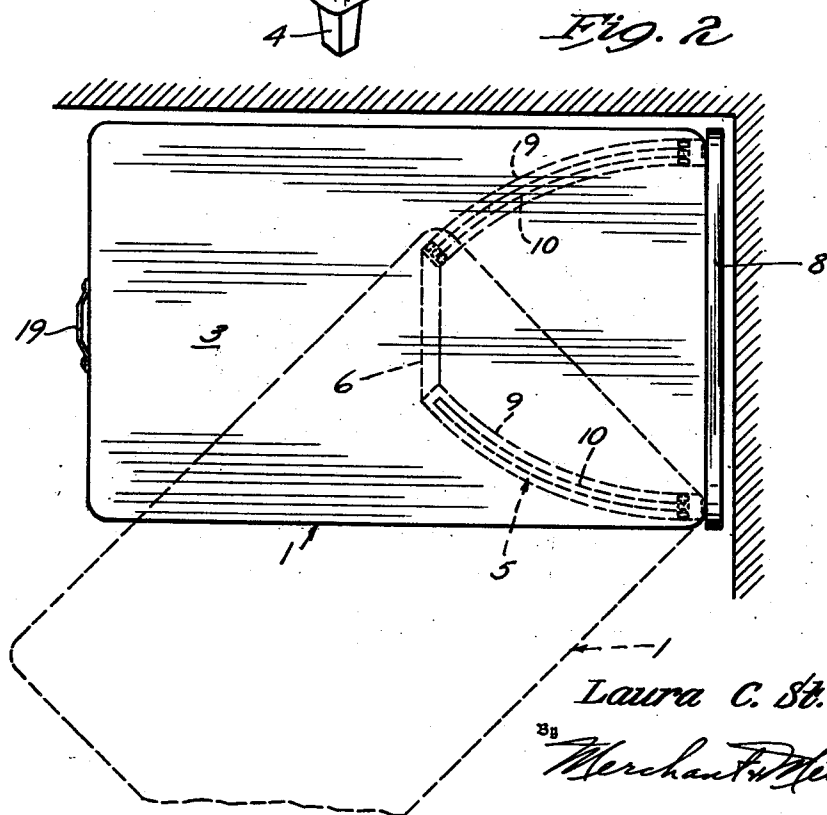
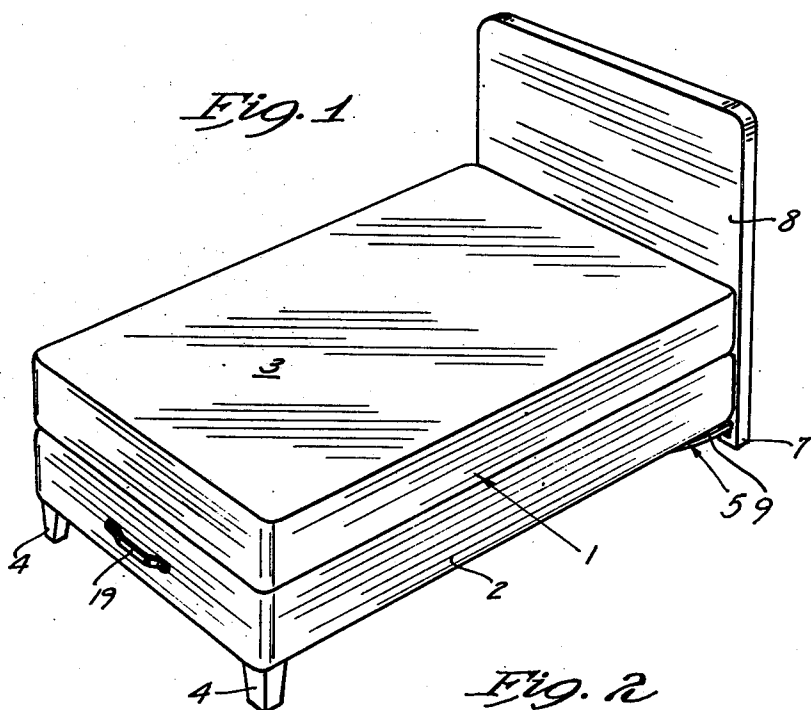
April 7, 1953

L. C. ST. MARTIN
BED CONSTRUCTION

2,633,581

Filed Nov. 13, 1950

2 SHEETS—SHEET 1



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2 SHEETS—SHEET 2

Fig. 3

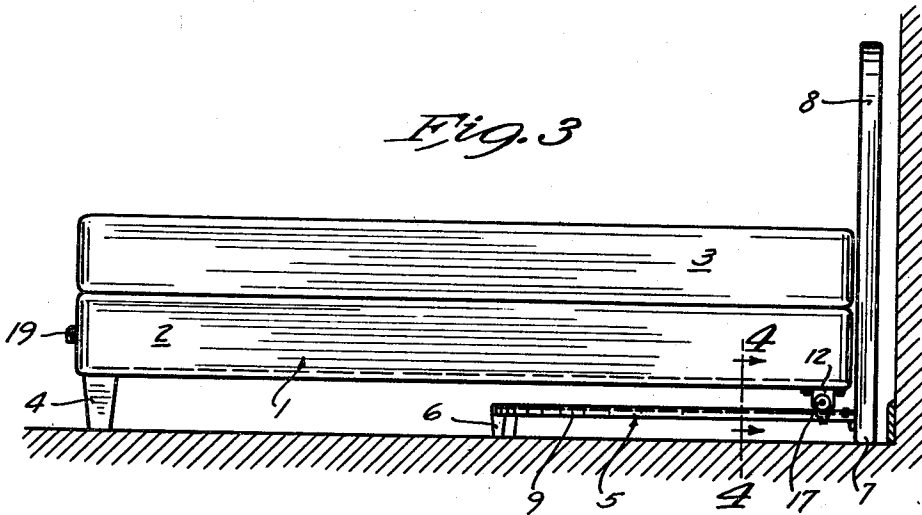


Fig. 5

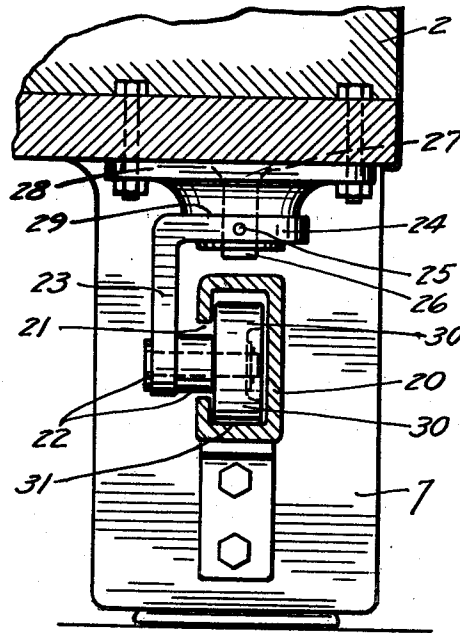
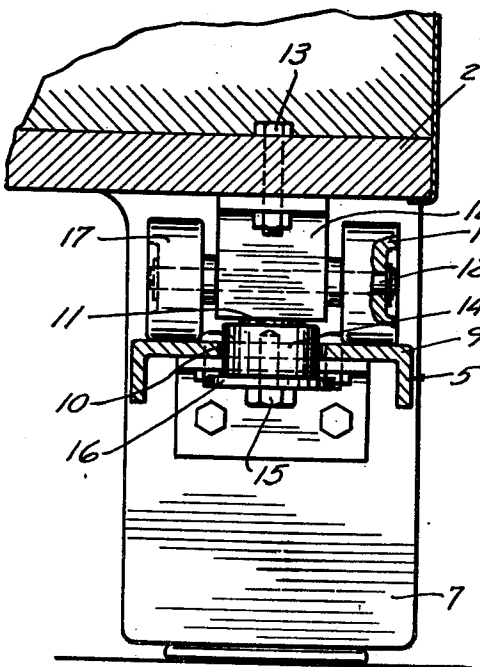


Fig. 4



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2,633,581

BED CONSTRUCTION

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5 Claims. (Cl. 5—131)

1

My invention relates to sleeping beds and has for its primary object the provision of a novel bed which may be quickly and easily moved to facilitate bed-making, cleaning, and the like.

The conventional bed is mounted on a rectangular frame. This frame is supported by legs, one adjacent each corner. When such a bed is placed in a corner of a room, particularly where there is carpeting on the floor, it is extremely difficult to move the bed away from the wall sufficiently to enable one to make the bed up or clean thereunder. Furthermore, when such moving is attempted, the headboard frequently comes into brushing contact with the walls so as to scuff or damage the same. The object of my invention is to so mount the bed as to enable one to easily and quickly move the bed away from the wall without fear of damage to the floor or floor covering or without the possibility of damaging the wall by contact of the headboard therewith.

A still further object of my invention is the provision of a bed having a relatively stationary headboard and support in the nature of an arcuate guideway which permits limited pivotal movements of the bed frame with respect to the headboard and support assembly.

The above and still further objects of my invention will become apparent from the following detailed specification, appended claims, and attached drawings.

Referring to the drawings, wherein like characters indicate like parts throughout the several views:

Fig. 1 is a view in perspective of a bed construction in accordance with my invention;

Fig. 2 is a top plan view of my novel device, one position of pivotal movement being indicated by dotted lines;

Fig. 3 is a view in side elevation of a bed constructed in accordance with my invention;

Fig. 4 is an enlarged view in section taken substantially on the line 4—4 of Fig. 3; and

Fig. 5 is a view corresponding to Fig. 4 but showing a modified arrangement of some of the parts.

Referring with greater particularity to the drawings, the numeral 1 indicates, in its entirety, a bed of the type generally referred to as a "Hollywood" bed and including a generally rectangular bed element 2 in the nature of a box spring and a conventional mattress 3 mounted thereon. Adjacent each rear corner, the box spring 2 is supported by a leg 4. A relatively stationary support 5 is adapted to underlie the forward end of the bed element 2. As shown, 55

2

the support 5 is in the nature of an arcuate guideway which is retained in spaced relation to the floor at its forward end by a leg 6 and at its rear end by a leg 7 which preferably and as shown, is in the nature of an integrally-formed extension of a headboard-forming element 8, which is rigidly secured to the support 5 by any suitable means.

Preferably and as shown, the support 5 is formed from relatively heavy inverted channel iron or the like, is generally U-shaped, and includes a pair of arcuate guide tracks 9, each of which is centrally slotted as at 10 to receive a depending stud 11 carried by brackets 12, which, as shown, are secured to said bed element 2 adjacent opposite inner corners by means of nut-equipped bolts or the like 13. As shown particularly by Fig. 4, roller elements 14, of only slightly less diameter than the width of the slots 10, are secured to the studs 11 by means of headed bolts 15. Enlarged heads, in the nature of washers 16, are interposed between the headed bolts 15 and the roller elements 14 so as to prevent accidental removal of the rollers 14 from their cooperating slots 10.

To facilitate movement of the bed element 2 on the arcuate track 9, I preferably provide carrier elements in the nature of pairs of roller wheels 17 journaled on trunnions 18 projecting from opposite sides of brackets 12. As shown, the roller wheels 17 are adapted to ride upon the track 9, one on each side of the slots 10.

It will be noted that the arcuate guide tracks 9 converge toward the rear end of the bed element 2, the divergent ends of each terminating under an opposite front corner portion of said bed element 2 when said bed element is in its normal full line position of Fig. 2. Furthermore, contact of the roller 14 with the opposite closed ends of the slots 10 limits movement of the carrier wheels 17 and the bed corners associated therewith.

When it is desired to pivotally move the bed 1 from the full line to the dotted line position of Fig. 2, for the purpose of facilitating bed-making, cleaning, or the like, the outer end of the bed may be lifted, preferably through the medium of handle elements 19; and the bed 1 is moved pivotally in either direction. In either event, one of the studs 11 constitutes the pivotal axis whereas the opposite stud 11 and its cooperating roller elements 17 ride upon the opposite segmental track 9 which is concentric to the axis of said opposite stud 11 when said stud 11 is retained in the extreme inner end of the slot 10.

It should be obvious that the loose fits between the head 16 and the track 9 and between the roller 14 and the slot 10 permit limited rocking movements of the bed on the rollers 17 so as to enable the forward end of the bed to be elevated for pivotal movements.

In the modified form of my invention illustrated in Fig. 5, an alternate form of support and carrier is shown. As there shown, the support 20 is in the nature of a channel iron having a restricted opening 21 in its inner side wall to loosely receive a trunnion member 22 which is fast on the lower end of a vertically-disposed arm 23. The arm 23, at its upper end, is rigidly connected with a head 24 which in turn is secured by means of a key or the like 25 to a vertically-disposed pivot pin 26. Pivot pin 26 has a flaring upper end 27 which prevents downward movement thereof with respect to mounting bracket 28 by which it is carried. The lower end of the mounting bracket 28 provides a wide bearing surface 29 for the head 24. Journalled on the outer end of the trunnion 22 is a roller wheel 30 which has a diameter greater than the restricted opening 21 and, therefore, may be entered into the channel-like support 20 through an open end thereof. As shown, the roller wheel 30 is adapted to ride upon the track-forming surface 31 of the support 20.

While I have disclosed a preferred and one modified form of my invention, it should be obvious that the same is capable of still further modification without departure from the spirit and scope of the invention as set forth in the appended claims.

What I claim is:

1. In an article of furniture of the class described, a bed element, a relatively stationary support underlying one end of said bed element, and means mounting said one end of the bed element on said support for pivotal movements of said bed element with respect to said support in opposite directions from the normal position thereof and about vertical axes at the corner portions of said one end, the axis at one of said corner portions travelling in a path concentrically about the axis at the other of said corners under pivotal movements of said bed element between the normal position thereof and its limit of movement in one direction, said support defining guideways for said mounting means.

2. The structure defined in claim 1 in which said mounting means permits limited rocking movements of said bed element with respect to said support about a horizontal axis, whereby the opposite end of the bed element may be raised out of engagement with the floor in any position of its pivotal movement.

3. In an article of furniture of the class described, a generally rectangular bed element, a support underlying one end of said bed element and permitting pivotal movements of said bed element toward and away from a normal position, said support comprising a pair of arcuate guide tracks converging toward the opposite end of the bed element, the divergent end of each

of said guide tracks terminating under an opposite corner portion of said one end of the bed element in its normal position and forming the central portion of a circle defined by the arc of the other of said guide tracks, and means mounting said one end of the bed element on said support for pivotal movements selectively about each of said central portions, said means comprising a pair of carriers one each mounted on an opposite corner portion of said one end of the bed element and guided by one of said guide tracks.

4. In an article of furniture of the class described, a relatively stationary headboard, a bed element movable with respect to said headboard, a relatively stationary support mounted on said headboard and underlying the adjacent end of said bed element, and means mounting said one end of the bed element on said support for pivotal movements of said bed element with respect to said support and headboard in opposite directions from the normal position thereof and about vertical axes at the corner portions of said one end, one of said corner portions travelling in a path concentrically about the axis at the other of said corners under pivotal movements of said bed element between the normal position thereof and its limit of movement in one direction, said support defining guideways for said mounting means.

5. In an article of furniture of the class described, a relatively stationary headboard, a relatively movable generally rectangular bed element, a relatively stationary support mounted on said headboard and underlying the adjacent end of said bed element, said support permitting pivotal movements of said bed element toward and away from a normal position and comprising a pair of arcuate guide tracks converging toward the opposite end of the bed element, the divergent end of each of said guide tracks terminating under an opposite corner portion of said one end of the bed element in its normal position and forming the central portion of a circle defined by the arc of the other of said guide tracks, and means mounting said one end of the bed element on said support for pivotal movements selectively about each of said central portions, said means comprising a pair of carriers one each mounted on an opposite corner portion of said one end of the bed element and guided by one of said guide tracks.

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