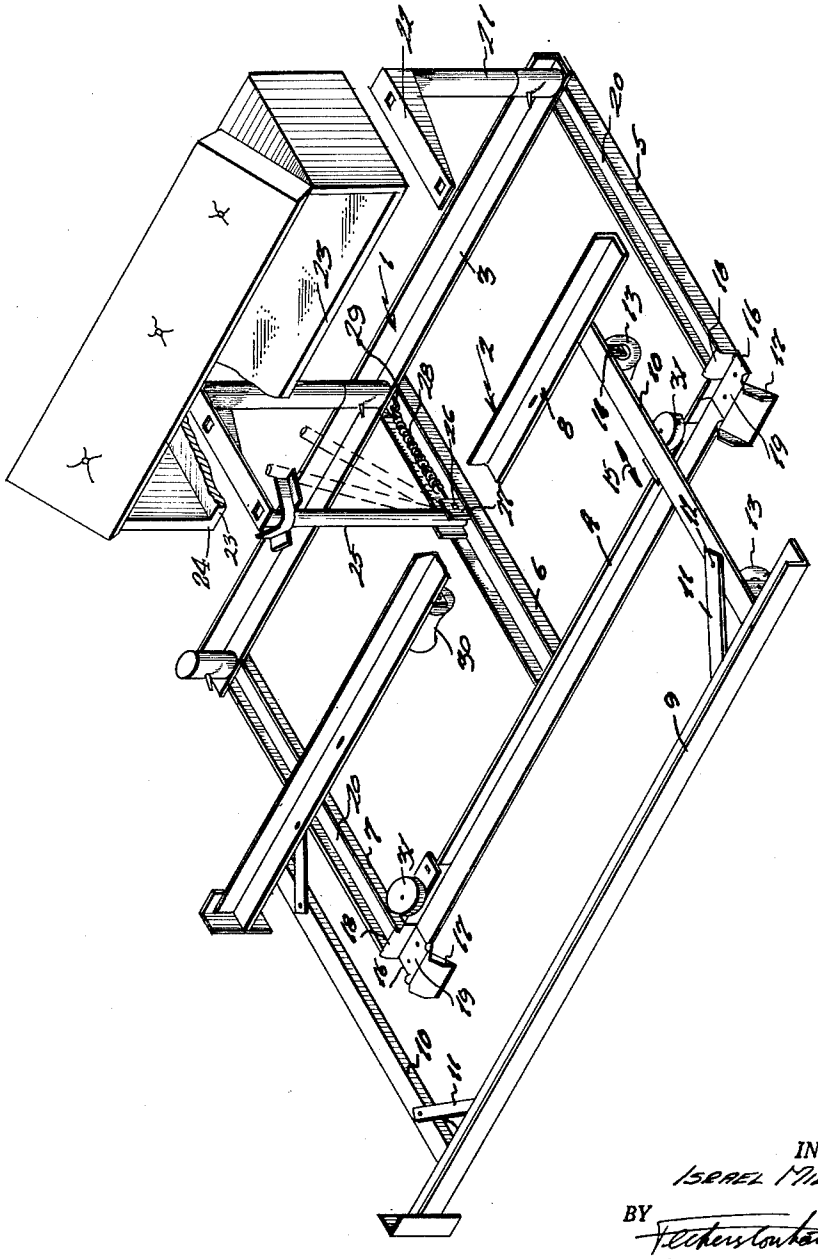
Dec. 25, 1962 I. MILLER 3,069,698

CONVERTIBLE CHESTERFIELD AND BED UNIT

Filed March 14, 1960



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United States Patent Office

3,069,698

Patented Dec. 25, 1962

3,069,698

CONVERTIBLE CHESTERFIELD AND BED UNIT

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Filed Mar. 14, 1960, Ser. No. 14,579
3 Claims. (Cl. 5—17)

My invention relates to new and useful improvements in convertible bed units.

Present day hotel and motel accommodations are tending towards convertible seating and sleeping units wherein the bed is converted to seating unit during the day time and which is easily converted to a bed unit at night.

Conventional units of this type pivot outwardly from one corner thereof but these are not considered satisfactory due to the excessive clearance required to obtain the necessary pivoting action.

I have overcome these disadvantages by providing a base frame upon which is mounted a bed frame with rollers upon the underside thereof engaging channels in said base frame. In order to convert the unit, the bed frame is merely pulled outwardly so that the front rollers roll on the floor and extend the bed clear of the storage box and upholstery portion. Furthermore, when the bed frame is retracted, I provide means to elevate the front edge thereof in order to make a more comfortable seating unit.

The principal object and essence of my invention is therefore to provide a device of the character herewithin described which is easily convertible from a bed to a seat and vice versa.

A further object of my invention is to provide a device of the character herewithin described in which the front edge of the unit is slightly higher than the rear edge thereof when in the seat position, thus adding to the comfort of the device.

Yet another object of my invention is to provide a device of the character herewithin described which includes novel means to support the front corner of the storage box associated with the device, when the bed frame is extended.

A still further object of my invention is to provide a device of the character herewithin described which includes means to stabilize the side action of the device in order to maintain the alignment of the bed frame with the base frame during the retraction and extension thereof.

A yet further object of my invention is to provide a device of the character herewithin described which, when in the seating position, not only adds to the comfort of the room's occupant, but also enables the furnishings of the room to be attractive and compatible.

With the foregoing objects in view, and such other objects and advantages as will become apparent to those skilled in the art to which this invention relates as this specification proceeds, my invention consists essentially in the arrangement and construction of parts all as hereinafter more particularly described, reference being had to the accompanying drawing in which:

The FIGURE is an exploded perspective view of my device.

In the drawing like characters of reference indicate corresponding parts.

Proceeding therefor to describe my invention in detail, it will be seen upon reference to the accompanying drawing that it consists of a base frame collectively designated 1 and a bed frame collectively designated 2.

In detail, the base frame 1 consists of a pair of longitudinally extending angle irons 3 and 4 which are secured to three guide channels 5, 6 and 7, thus maintaining the guide channels in spaced and parallel relationship one with the other.

The bed frame 2, which is also substantially rectangular when viewed in plan, consists of longitudinal angle irons 8 and 9 and transverse members 10 with diagonals 11 being secured by rivets 12 as illustrated, for strengthening purposes.

Upon the underside of the transverse members 10 I have provided rollers 13 mounted within brackets 14, there being two rollers upon each of the members 10 and these rollers are adapted to engage the guides 5 and 7 so that the bed frame can be moved inwardly or outwardly with respect to the base frame in the direction of the double headed arrow 15.

I have provided means to lock the bed frame in the retracted position against undesirable outward movement, said means taking the form of channel ends 16 secured on the ends of the front longitudinal member 4 of the base frame. These channel ends include the downwardly inclined guides 17 which engage the floor surface and the rearwardly curved flanges 18 which close off the forward ends of the guide channels 5 and 7. The base 19 of the channel ends or portions 16 are situated on a plane slightly higher than the base 20 of the guide channels and when in the retracted position, the front rollers 13 of the bed frame engage within these portions 16 thus elevating the front edge of the bed frame slightly above the rear edge thereof. This assists in a more comfortable seating arrangement when in the retracted position.

It will be appreciated, of course, that a conventional box spring can be secured to the bed frame and a slip cover can be used to cover the box spring and the bedding thereon.

Upwardly extending supports 21 are secured to the rear longitudinal member 3 of the base frame, said support carrying off-standing brackets 22 upon which is secured a storage box 23 adapted to contain pillows and the like and also to add to the attractiveness of the unit when in the retracted position.

When the bed frame is in the retracted position, the corner 24 of the box is supported by the upper surface of the bed. In any event, when the bed frame is retracted, there is little danger of additional strain being placed upon this box unit.

However when the bed frame is extended, I have found that this corner 24 needs additional support as occupants often utilize the box in order to assist themselves in or out of bed.

I have therefor provided means to support the corner of the box when the bed frame is extended.

Within the central channel 6 I have mounted a post 25 pivoted on pin 26 between flanges 27 adjacent the lower end of the post. A spring 28 extends between an anchor point 29 on the base frame and the base of the post 25 (not illustrated) so that normally this spring erects the post in the position shown in the drawing.

The upper end of the post engages the underside of the bracket 22 thus giving additional support to the corner 24 of the box.

However, when it is desired to retract the bed, a roller 30 mounted upon the underside of longitudinal member 8, engages the post 25 and as the bed frame is retracted, the post is pushed downwardly against tension of spring 28 so that it nests within the channel 6.

In operation all that is necessary to extend the bed is to lift the front edge slightly to clear the front rollers out of the portions 16 whereupon they run down the guides 17 and the bed extends readily to the position where the rear rollers engage the curved flanges 18.

When it is necessary to retract the bed, the reverse operation is undertaken, a slight lift being necessary to run the front rollers up the guides 17 and into the channel ends 16.

Finally it will be observed that I have provided side

thrust rollers 31 mounted upon the front longitudinal angle iron 4 of the base frame, these rollers engaging the transverse members 10 of the bed frame and maintaining the alignment of the bed frame with the base frame during the retraction and extending operation.

Since various modifications can be made in my invention as hereinabove described, and many apparently widely different embodiments of same made within the spirit and scope of the claims without departing from such spirit and scope, it is intended that all matter contained in the accompanying specification shall be interpreted as illustrative only and not in a limiting sense.

What I claim as my invention is:

1. A convertible unit comprising in combination a stationary base frame and an extandable and retractable bed frame supported by said base frame, said base frame including a plurality of spaced and parallel guide channels, longitudinal members spanning said guide channels and maintaining same in said spaced and parallel relattionship, said bed frame being rectangular when viewed in plan, roller means secured to the underside of said bed frame engageable for rolling action within said guide channels, support means extending upwardly from said base frame adjacent the rear side thereof, a storage box mounted on the upper ends of said support means, and erectable means on said base frame adapted to extend upwardly automatically when said bed frame is in the extended position, to support the forward end of said box when said bed frame is extended, said erectable means consisting of a post pivotally secured adjacent the lower end thereof to one of said guide channels, spring means on the lower end of said post and secured to said base frame, said spring means normally maintaining said post upright, said bed frame retracting said post into said guide channel against pressure of said spring when said bed frame retracts onto said base frame.

2. The device according to claim 1 which includes means on said base frame for selectively locking said bed frame in the retracted position with the front edge thereof at an elevation slightly higher than the rear edge thereof, said means including a transverse roller receiving member situated at the front ends of said guide channels, the elevation of said member being slightly above the elevation of said guide channels, said rollers on the front side of said bed frame registering in said members when in the retracted position, and guides extending from said members to the floor surface upon which said device rests.

3. The device according to claim 2 which includes side thrust guide rollers mounted on said base frame engaging the end members of said bed frame and maintaining the alignment of said bed frame to said base frame when extending and retracting said bed frame.

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