Feb. 12, 1963 J. MAGUIRE 3,076,977

SOFA BED AND TABLE UNIT

Filed Aug. 1, 1960

FIG. 1.

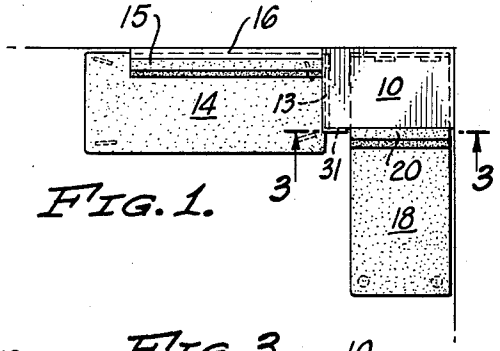


FIG. 2.

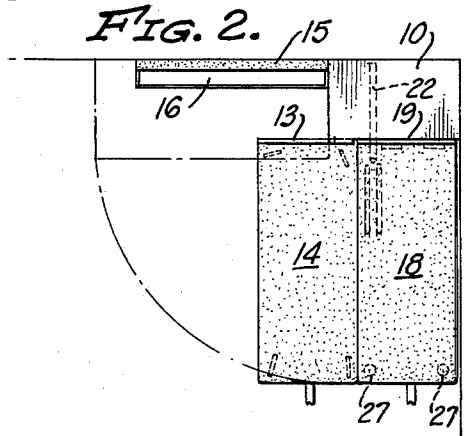


FIG. 3.

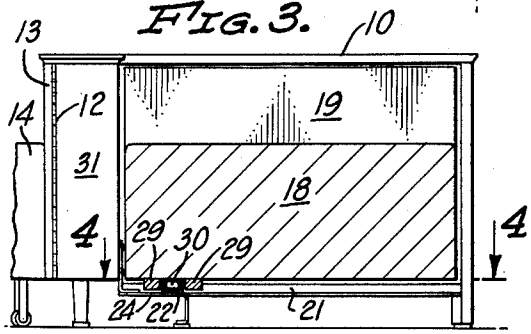


FIG. 4.

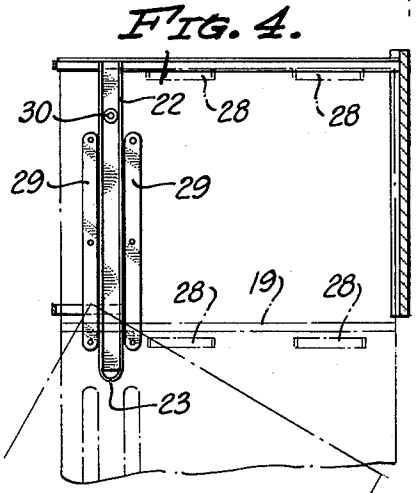


FIG. 5.

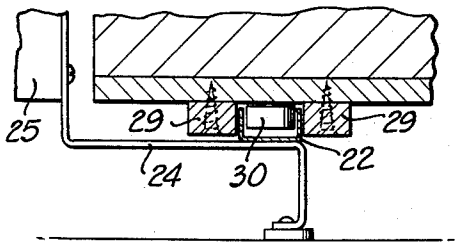
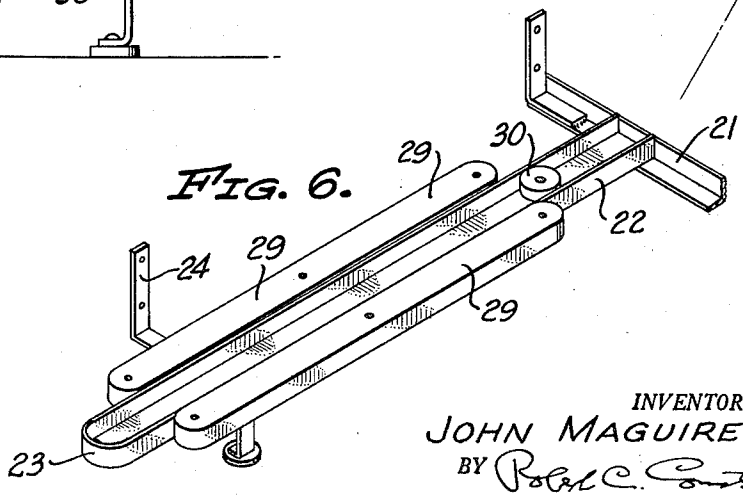


FIG. 6.



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SOFA BED AND TABLE UNIT

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2 Claims. (Cl. 5—3)

This invention relates to a sofa bed and table unit which is adapted to be placed in the corner of a room.

It is an object of my invention to provide a new and improved unit of the type described which is particularly adapted for use in a room having a limited amount of space.

It is a more particular object of my invention to provide such a unit which utilizes two beds which are narrower than a conventional twin bed so that they require less space, they more closely resemble a conventional sofa in their dimensions and appearance, they require a smaller bolster or backrest, and they permit the use of a smaller corner table. As a result, the dimensions of the unit are smaller, permitting its use in a room lacking sufficient space to accommodate a conventional corner sofa bed unit.

While the individual beds are smaller than twin bed size, they can be combined at night to form a large or "king size" bed having a larger sleeping area than a conventional double bed.

It is a further object of my invention to provide such a unit in which the corner table is provided and the head portion of one of the beds is disposed beneath the table during the daytime and moved out at night. This arrangement reduces the amount of wall space which is required for the unit.

Another object of my invention is to provide a new and improved mechanism for sliding the bed back and forth beneath the table and for pivoting the bed away from the wall to permit changing of the bed coverings and cleaning beneath the bed. It is a more particular object of my invention to provide such a structure in which none of the track mechanism is attached to or disposed along the floor of the room. A further object of my invention is to provide such a mechanism which is simple and economical to construct and to operate and which is substantially foolproof in its construction and operation.

It is accordingly an object of my invention to provide a sofa bed and table unit having all of the advantages and benefits of the structure set forth above and described herein. My invention also comprises such other objects, advantages and capabilities as will later more fully appear and which are inherently possessed by my invention.

While I have shown in the accompanying drawings a preferred embodiment of my invention, it should be understood that the same is susceptible of modification and change without departing from the spirit of my invention.

Referring to the drawings, FIG. 1 is a top plan view of my sofa bed and table unit with both beds in their daytime positions;

FIG. 2 is a top plan view of my sofa bed and table unit with both beds in their nighttime positions;

FIG. 3 is an enlarged fragmentary sectional view taken on line 3—3 of FIG. 1;

FIG. 4 is a sectional view taken on line 4—4 of FIG. 3;

FIG. 5 is an enlarged view of the lower left hand portion of FIG. 3;

FIG. 6 is a perspective view of the track structure alone with the table and bed omitted to clarify the showing.

A preferred embodiment which has been selected to illustrate my invention comprises a rectangular table 10, which is adapted to fit in the corner of a room. The corner of the table 10 which is disposed outwardly from the walls of the room is provided with an elongated piano

hinge 12, the other half of which is secured to the headboard 13 of a first bed 14. The first bed 14 and headboard 13 close off one side of the table 10 when the first bed 14 is in its daytime position.

A bolster 15 is pivotally secured to a backrest 16 which extends longitudinally along the back edge of the first bed 14 adjacent to the wall of the room. The backrest 16 is secured at one end to the table 10. When the bolster 15 is in its downward position, it dogs against the headboard 13 and prevents any pivotal movement of the first bed 14. When the bolster 15 is pivoted to its upward position, in which it is disposed on top of the backrest 16, the headboard 13 is free and the first bed 14 can be pivoted on the hinge 12.

A second bed 18 is arranged so that its head portion is normally disposed beneath the table 10. The second bed 18 has a headboard 19 which is slightly shorter than the top of the table 10 so that the headboard 19 is free to pass beneath the table 10 as the head of the second bed 18 is moved to and from its position underlying the table 10. A loose bolster 20 is removably disposed transversely across the second bed 18 adjacent to the table 10 to conceal the gap between the table 10 and the top of the second bed 18 when the second bed 18 is in its daytime position.

The rear portion of the bottom of the table 10 is provided with an angle iron 21 which extends transversely with respect to the second bed 18. A substantially U or channel-shaped track 22 is connected at its inner end to the angle iron 21. The track 22 extends longitudinally with respect to the second bed 18 and extends from the angle iron 21 to a point substantially beyond the front edge of the table 10. The outer end of the track 22 is closed off by a semi-circular portion 23. An L-shaped bracket 24 supports the end of the track 22 remote from the angle iron 21. The bracket 24 is connected to a panel 25 which comprises part of the structure of the table 10.

The second bed 18 is supported at its outer end by a pair of swivel casters 27 and at its inner end by a pair of elongated rollers 28. A pair of elongated guides 29 extend longitudinally adjacent one corner of the bottom of the second bed 18. The guides 29 are spaced apart from each other a distance slightly greater than the width of the track 22. Mounted forwardly from the forward end of the guides 29 is a horizontally directed roller 30, which is mounted for free rotation with respect to the second bed 18.

The roller 30 fits within the track 22, while the guides 29 are disposed on both sides of the track 22. When the second bed 18 is in its daytime position, the roller 30 is disposed adjacent the inner end of the track 22 and the guides 29 are disposed in their entireties on opposite sides of the inner end of the track 22.

The second bed 18 is moved to its nighttime position by sliding longitudinal movement thereof to move it completely out from beneath the table 10. During this movement, the guides 29 will engage the sides of the track 22 in the event of any undesirable lateral movement of the second bed 18 until it has been moved completely out from beneath the table 10. Outward movement of the second bed 18 is limited by the semi-circular portion 23 of the track 22, which engages the roller 30.

After the second bed 18 has been moved completely out from beneath the table 10, the guides 29 are disposed outwardly beyond the semi-circular portion 23 of the track 22. The second bed 18 is thus free to be pivoted by lateral movement of the frame of the bed. The roller 30 fits within the semi-circular portion 23 at the outer end of the track 22 to provide a pivot point for the second bed 18.

When the second bed 18 is to be moved back to its daytime position, the opposite movements take place.

The bed must be properly aligned with the table 10 before it can be moved beneath the table 10 and the guides 29 keep it in proper alignment during such movement.

The table 10 is rectangular rather than square, thus providing a closed panel 31 on the front of the table 10 adjacent to the second bed 18. This panel 31 can be used as a TV remote control panel, as a radio panel or for decoration. The width of the panel 31 corresponds to the distance which the first bed 14 and its headboard 13 protrude forwardly beyond the front edge of the table 10. When the first bed 14 is pivoted on the hinge 12 to a position transverse to its daytime position and adjacent to the second bed 18, the first bed 14 and its headboard 13 overlie the panel 31 and the headboards 13 and 19 are aligned to provide a complete headboard extending across the head of the large size bed formed by the beds 14 and 18. The beds 14 and 18 may also be used one at a time or both at the same time without moving them adjacent to each other.

I claim:

1. A sofa bed and table unit comprising:

a substantially rectangular table adapted to fit within the corner of a room,

a substantially rectangular bed, said bed being movable between a daytime position in which the head portion thereof is disposed beneath said table and a nighttime position in which said bed is completely withdrawn from beneath said table,

a channel-shaped track disposed beneath said table and attached thereto, said track extending longitudinally with respect to said bed and extending in a straight line from the rear edge of said table to a point a short distance outwardly from said table,

said track having vertically directed straight parallel sides and a rounded outer end, said outer end being disposed outwardly from said table,

a horizontally directed roller mounted on the bottom of said bed adjacent one corner thereof, said roller being disposed within said track, the sides of said roller being adapted to engage the vertically directed sides of said track, and

a pair of elongated parallel guides mounted on the bottom of said bed and on opposite sides of said roller, the inner ends of said guides being disposed a short distance outwardly from said roller and the outer ends of said guides being disposed a short distance inwardly from the rounded outer end of said track, said guides being spaced apart from each other a distance somewhat greater than the width of said track,

said guides being disposed on opposite sides of said track when said bed is in its daytime position, said guides being adapted to engage the sides of said track to prevent undesired sideward movement of said bed with respect to said table during the movement of said bed between its daytime and nighttime positions,

said roller engaging the rounded end of said track when said bed is moved outwardly from beneath said table to its nighttime position, the inner ends of said guides being moved beyond the outer end of said track so that said bed is free to be pivoted with respect to said table, with said roller providing a pivot point adjacent to the corner of said bed.

2. The structure described in claim 1, and

a second bed pivotally mounted with respect to said table, with its pivot point disposed adjacent the outer corner of said table, said second bed being somewhat wider than its adjacent side of said table, and said first named bed being somewhat narrower than its adjacent side of said table,

a headboard carried by said first named bed corresponding in width to the width of said bed,

a headboard carried by said second bed of less width than said second bed and corresponding in width to the adjacent side of said table, and

a vertically directed closed side panel on said table, said panel extending along the side of said table adjacent to said first named bed,

said beds being pivotable into parallel positions in which said side panel is disposed between and aligned with the headboards of both of said beds to provide a complete headboard for said combined beds.

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