

June 23, 1953

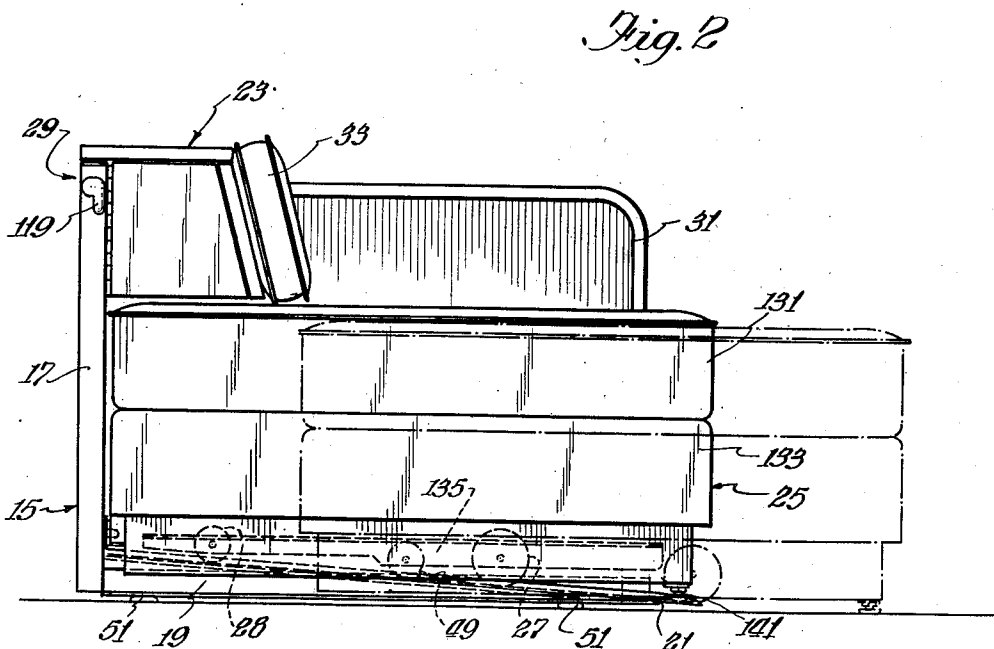
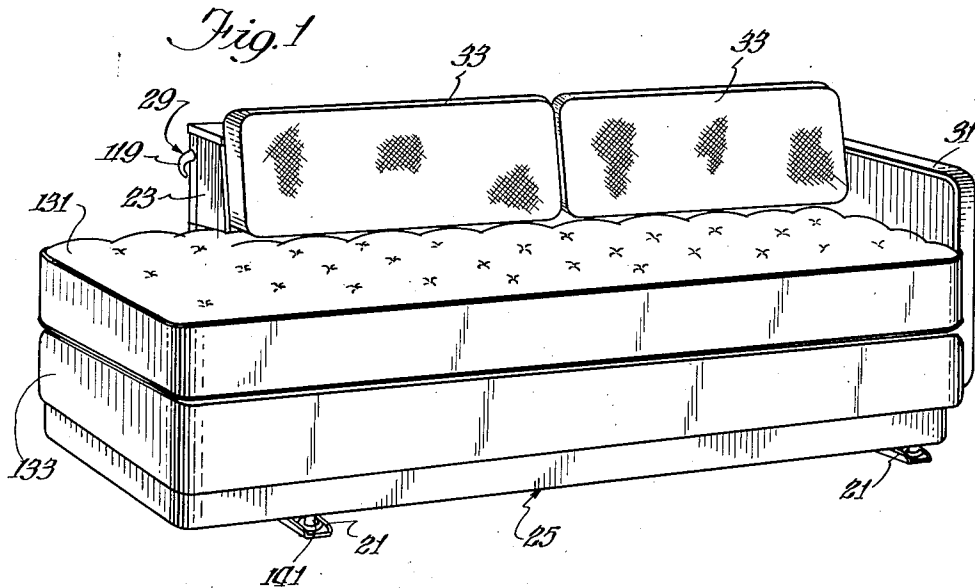
J. S. PETERSEN ET AL

2,642,584

SOFA BED

Filed Feb. 15, 1951

4 Sheets-Sheet 1



Inventors:
John S. Petersen
Harry E. Coshun

By:

Soano, Glaister, & Anderson
Attys.

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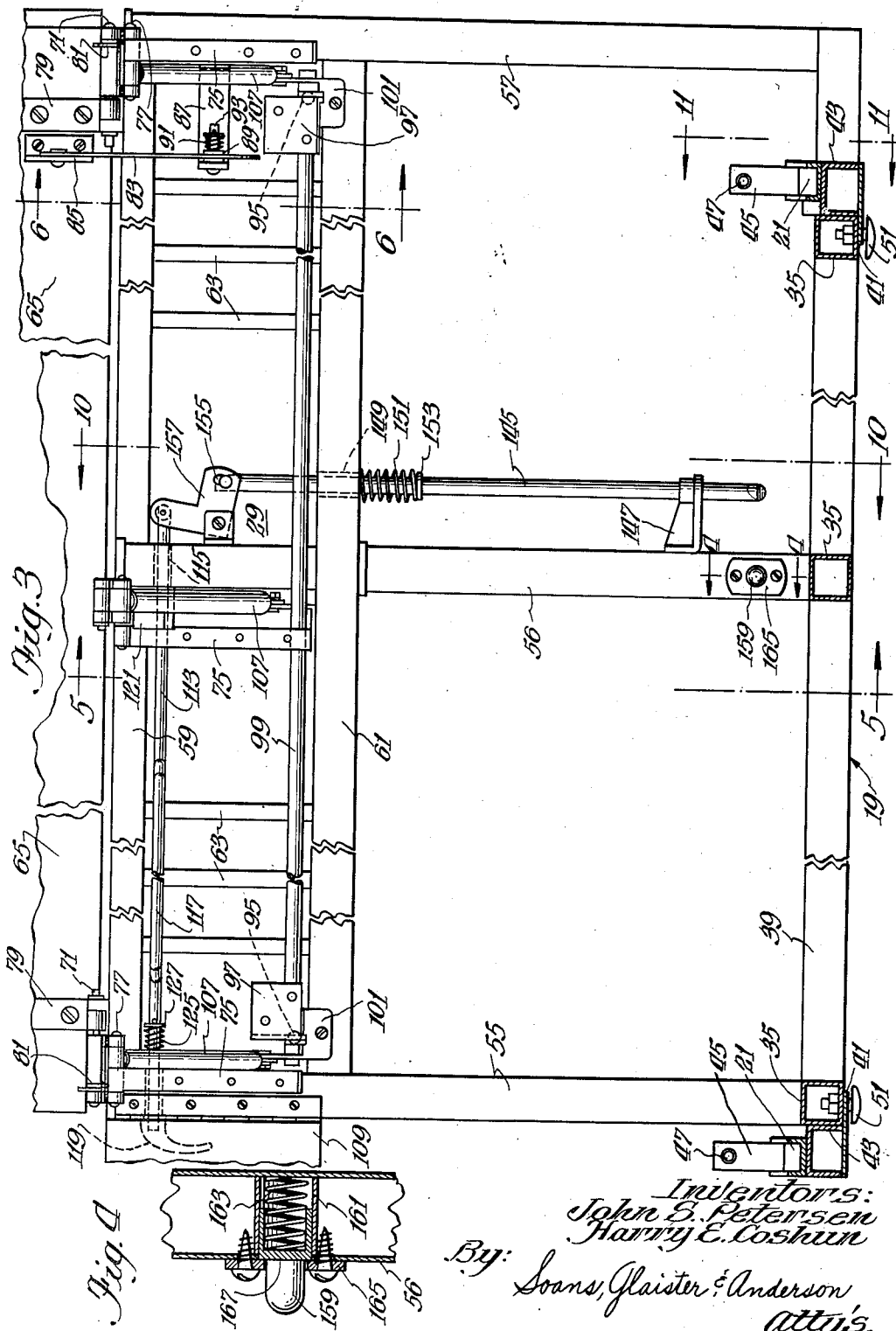
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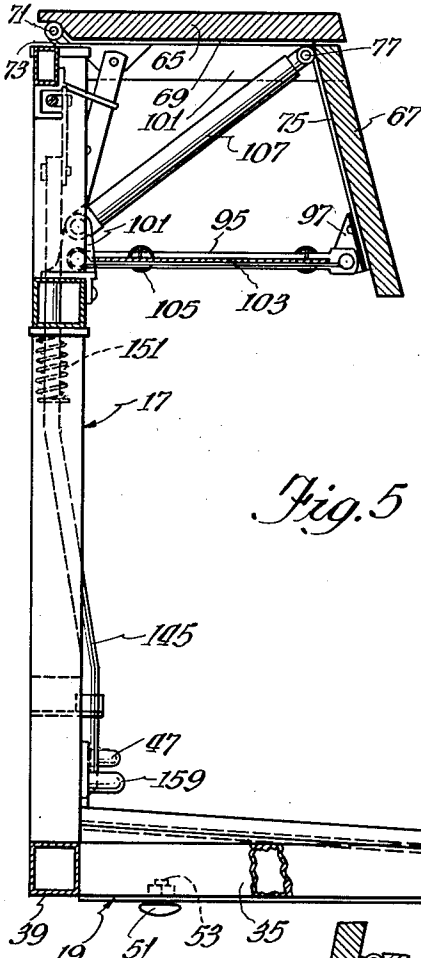


Fig. 5

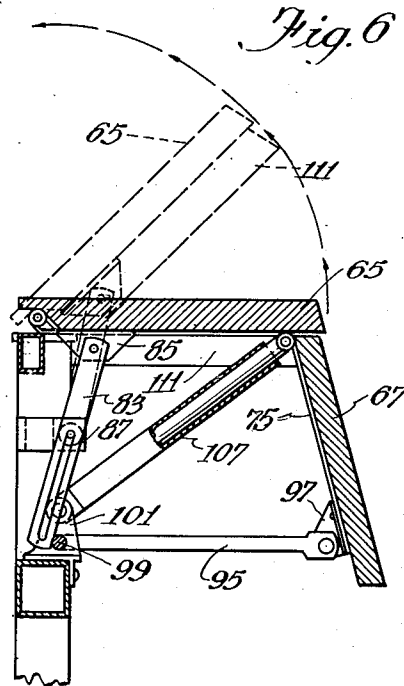


Fig. 6

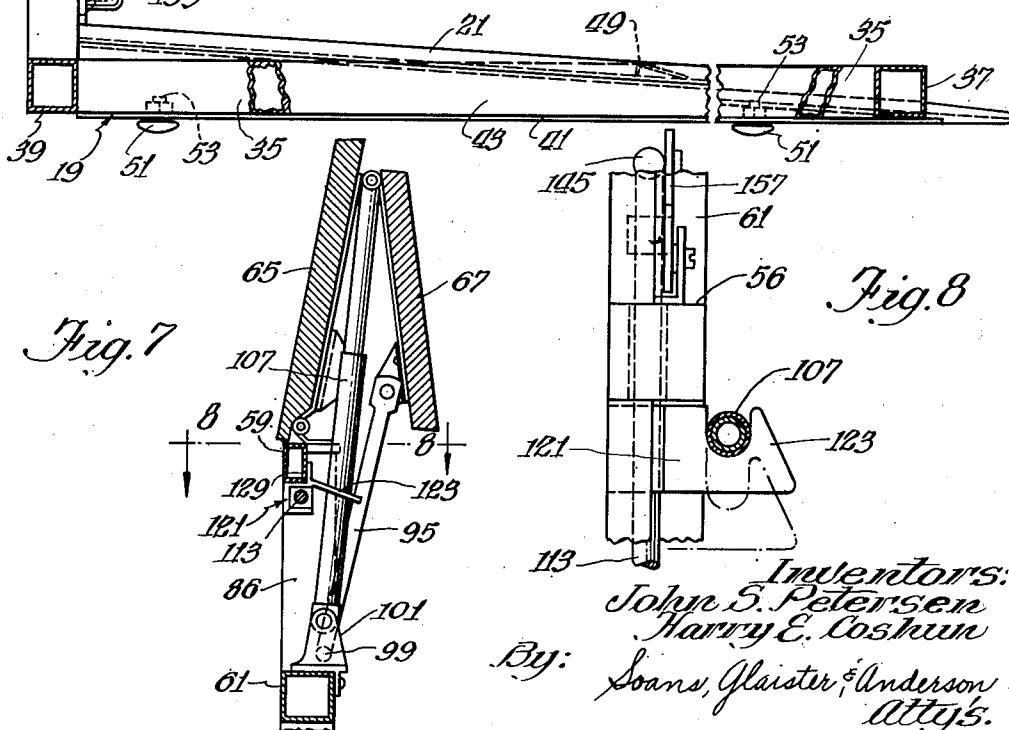


Fig. 7

Fig. 8

Inventors:
John S. Petersen
Harry E. Coshun
By: Soans, Glaister & Anderson
Attys.

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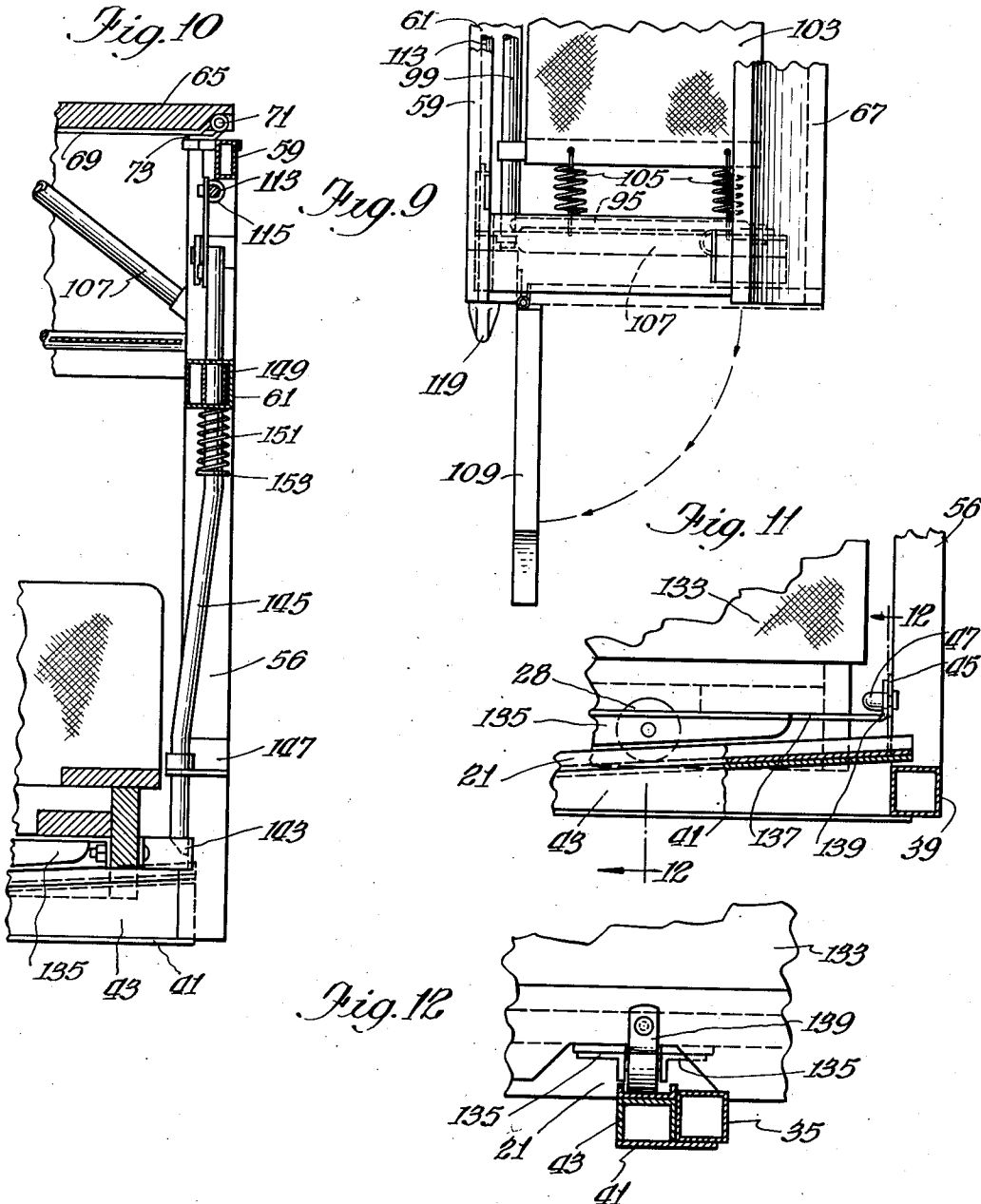
J. S. PETERSEN ET AL

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Inventors:
John S. Petersen
Harry E. Coshun
By: Soano, Glaister & Anderson
Attys.

UNITED STATES PATENT OFFICE

2,642,584

SOFA BED

John S. Petersen and Harry E. Coshun, Kenosha,
Wis., assignors to Simmons Company, Kenosha,
Wis.

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8 Claims. (Cl. 5—19)

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This invention relates to sofa beds and is concerned particularly with improvements in sofa beds of a type disclosed in United States Patents 1,359,027, Bryld, and 2,370,851, Eppenstein, i. e., a type of sofa bed having a movable couch or seat section which is normally partially disposed beneath a back rest to form a sofa of more or less normal proportions, and which is shiftable to a forward position at which the entire area of the couch or seat section is available for sleeping purposes.

Sofa beds of this type are particularly suited for use in hotels and dormitories or the like, because the couch or seat section of the unit may remain made up as a bed during the day, or at other times when it is desired to use the sofa bed as a sofa. The couch section may be covered by a slip cover and disposed beneath the back rest for sofa use without materially disturbing the bed clothes. When it is desired to use the sofa bed as a bed, the couch section may be moved forwardly by the person desiring to use the bed, and the slip cover removed to reveal a made-up bed ready for sleeping.

The principal objects of the present invention are to provide a bed of this type in which the couch or seat section is movable to its forward sleeping position automatically upon the release of a latch by a person desiring to use the bed; to provide in a bed of this type a rearwardly retractable back rest to facilitate the cleaning of the floor beneath the sofa bed; to provide an improved retractable back rest which is constructed so as to enclose a storage space for bedding and which will permit easy access to said storage space without retracting the back rest; to provide an improved latch mechanism for maintaining said couch section and said back rest respectively at their rearward and retracted positions, and further to provide an improved latch mechanism which will permit the couch or seat section to be moved into its latched, rearward sofa position without disabling the latch which is effective to maintain the back rest at its retracted position.

Other objects and advantages will appear and the invention will be better understood with reference to the following specifications and to the accompanying drawings in which there is illustrated a preferred embodiment of the invention.

The above stated objects are achieved in the illustrated form of a sofa bed embodying the invention by providing rollers on the underside of the couch section to support the couch section upon a ramp or inclined track forming part

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of the sofa frame. The back rest is constructed of hingedly connected members which permit it to be folded upwardly and rearwardly to a retracted position, at which it may be restrained by an appropriate latch. A latch is similarly provided for normally maintaining the couch or seat section at its rearward position, and is suitably connected to the back rest latch so that both latches may be released by a single operating lever or handle. Upon release of the latch, the couch section of the sofa bed rolls forwardly by gravity to its extended, sleeping position. The illustrated construction is extremely rugged and durable, and well adapted to the repeated and sustained use to which hotel furniture is put. Moreover, the conversion of the unit from sofa use to bed use is very simply accomplished and may be easily effected by the guest himself without requiring the attendance of a chambermaid or other operating personnel.

In the drawings:

Figure 1 is a perspective view of an entire sofa bed embodying the invention;

Figure 2 is an end elevational view of the sofa bed illustrated in Figure 1, showing by means of solid and broken lines respectively the sofa and bed positions of the movable couch section;

Figure 3 is a front elevational view, partly sectional, of the frame upon which the couch section and back rest are supported, and showing in some detail the back rest construction with its front panel removed and with its upper or shelf member raised and partially broken away;

Figure 4 is a fragmentary sectional elevational view taken along the line 4—4 of Figure 3, showing in detail the resilient bumper which is engaged by the couch section at its latched position.

Figure 5 is a sectional elevational view of the supporting frame and back rest taken along line 5—5 of Figure 3;

Figure 6 is a fragmentary sectional view similar to Figure 5 and showing by means of broken lines the shelf member of the back rest at an elevated position;

Figure 7 is a fragmentary sectional view similar to Figure 6 and showing the back rest retracted;

Figure 8 is a sectional view taken along the line 8—8 of Figure 7 and showing in greater detail the latch member for holding the back rest at its retracted position;

Figure 9 is a fragmentary plan view showing one end of the back rest illustrated in Figure 5;

Figure 10 is a fragmentary sectional view of the frame and back rest taken along line 10—10

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of Figure 3 showing the couch section latched at its rearward, sofa position;

Figure 11 is a fragmentary sectional view of a lower rear corner of the sofa bed taken along line 11—11 of Figure 3, and illustrating the engagement of the couch section with a locator pin on the supporting frame to prevent upward dislocation of the couch section from its latched position; and

Figure 12 is a fragmentary rear elevation of the couch-section showing the supporting rollers emplaced upon tracks on the supporting frame.

The illustrated form of sofa bed embodying the invention includes a generally L-shaped supporting frame 15 which comprises an upwardly extending rear panel 17 and a forwardly extending base panel 19 having mounted thereon a pair of rails or tracks 21 which are inclined downwardly toward the front of the sofa to form a ramp. A retractable bolster or back rest 23 normally extends forwardly from the upper portion of the rear frame panel 17, and a couch section 25 is movably supported on the tracks by means of rollers 27 and 28 journaled on its underside. The couch section 25 is shiftable by gravity from a rearward sofa position partially underlying the back rest 23 to a forwardly disposed sleeping position at which the entire area of the couch section is available for use as a bed (Fig. 2). Also included is a latch mechanism 29 which is effective to normally retain the couch section 25 at its rearward sofa position and, when desired, to retain the back rest 23 at its retracted position.

At one end of the sofa bed, an end panel or arm rest 31 is secured to the supporting frame in any convenient manner. It will be understood, however, that the arm rest may be secured to the couch section if desired, so as to be movable therewith, and that an arm rest may be provided at both ends of the sofa bed rather than at only one end, as shown in the drawings. One or more cushions 33 may be provided against the back rest to provide resilient back support when the unit is used as a sofa, and these cushions may be attached to the front face of the back rest or may be loose.

Referring to the constituent members of the sofa bed in greater detail, the base panel 19 of the supporting frame comprises three forwardly extending tubular members 35 of generally rectangular cross section (Fig. 3), and similar front and rear cross members 37 and 39 secured by welding to the forwardly extending members 35. To each of the side members of the base panel, there is secured by means of an underlying gusset plate 41 an inverted channel member 43 upon which the tracks 21 are mounted. The tracks or rails 21 are channel-shaped members which are open upwardly so that their flanges form guides for retaining the couch-section rollers in the tracks, and the inverted channel members 43 are graduated in height from front to rear of the sofa frame so as to give the tracks 21 the desired inclination.

Secured to the rear end of each of the inclined tracks 21 is an upstanding bracket 45 on which there is mounted a forwardly extending locator pin 47, the purpose of which will subsequently appear. Disposed approximately midway along each of the tracks 21 is a stop member or abutment 49 which normally limits the forward movement of the couch section at the sleeping position by engagement with the rear supporting rollers 28. However, the couch section may be moved

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forwardly all the way off the tracks 21, for example, for cleaning purposes, by simply lifting the couch section until its rear rollers 28 clear the stop member 49. The forward side of the stop member is sloped to permit the rear roller to climb over the stop member when the couch section is returned to its rearward sofa position. Secured to each of the side members 35 of the base panel is a pair of feet or pads 51 which are provided with threaded stems 53 to permit individual height adjustment for the purpose of properly leveling the supporting frame.

The upwardly-extending rear frame panel 17 comprises three vertical post members 55, 56 and 57 welded at their lower ends to the rear cross member 39 of the base panel and connected together at their upper ends by upper and lower transversely-extending bars 59 and 61. A plurality of spoke members 63 extending between the cross bars form a retaining wall in the upper portion of the rear frame panel 17 for a purpose later to be described. All of the frame members of the supporting frame are desirably tubular in cross section in order to obtain maximum rigidity for the weight of materials used.

The back rest 23 includes an upper shelf member 65 and inclined back support panel 67. The back support panel 67 is normally disposed in forwardly spaced relation with the rear frame panel 17 by a three-element hinge which includes a forwardly extending hinge plate 69 connected at its rear end by a pintle 71 to a small hinge plate 73 secured to the upper edge of the rear frame panel 17, and a downwardly extending hinge plate 75 connected by a pintle 77 to the front edge of the forwardly extending hinge plate 69. The back support panel 67 may be secured by means of screws to a downwardly extending hinge plate 75.

The shelf member 65 is pivoted at its rear edge to the upper edge of the rear frame panel 17 by means of a hinge strap 79 (Fig. 3) journaled on the rear hinge pintle 71. The shelf member normally rests upon the forwardly extending hinge plates 69 and is movable as a unit with the back support panel 67 from its forwardly disposed position to its rearwardly and upwardly-retracted position. However, the separate connection of the shelf member 65 to the rear frame panel 17 permits the shelf member to be raised independently to permit access to the space behind the back support panel 67 when the latter occupies its forwardly disposed back-supporting position.

The raising of the shelf member 65 is assisted by torsion springs 81 surrounding the rear hinge pintles 71, and the shelf member may be retained at any elevated position by means of a link 83 connected at its upper end to a bracket 85 secured to the underside of the shelf 65 and connected at its lower end by means of a pin and slot connection to a bracket 85 secured to the post member 57. Any desired position of the shelf member is maintained by a pair of friction pads 89 urged against the sides of the link 83 by a compression spring 91 which encompasses the pin or bolt 93 which passes through the slot in the link.

The lower edge of the back support panel 67 is connected to the rear frame panel 17 by means of a pair of arms 95 which are pivoted at their outer ends to a bracket 97 on the back support panel 67 and secured at their inner ends to a cross-rod 99 which is journaled at its ends in brackets 101 secured to the lower cross bar 61

of the rear frame panel. The arms 95 and their associated cross-rod 99 comprise a frame on which a canvas panel 103 is stretched by means of helicals 105 to form a floor for the compartment defined by the back support panel, the shelf member, and the spokes which extend between the cross bars of the rear frame panel. This compartment provides convenient storage space for ordinary bed pillows which are normally used only for sleeping purposes.

A telescopic link 107 extends diagonally through the space within the back rest and is pivotally connected at its upper end to the front hinge pintle 77 and at its lower end to the bracket 101 in which the cross rod 99 is journaled. The contraction of the telescopic link 107 is limited by the abutment of the inner link member with the closed end of the outer member when the back rest 23 assumes its normal supporting position, thus enabling the telescopic link to act as a brace in this position.

In the illustrated form of sofa bed, which has only one arm rest, and in which the back rest does not extend for the entire length of the sofa bed, the exposed end of the back rest 23 is provided with a door 109 hinged on the vertical post member 55 and adapted to fit within the shelf member 65 and back support panel 67 when the back rest occupies the normal position. Suitable engaging latch members may be provided on the door and the back support panel to keep the door closed. Obviously, the door must be opened before the back rest may be retracted. The opposite end of the back rest 23 is closed by the arm rest 31 and by a downwardly extending end portion 111 of the shelf member 65.

It will be apparent that with the above described support arrangement, the back rest 23 is normally maintained in its forward position, indicated in Fig. 5, by the hinge plate 69 and the arms 95 acting as spacing elements, and that it may be shifted upwardly and rearwardly to the position indicated in Fig. 7 at which the back rest may be retained by means of the latch mechanism 29.

The portion of the latch mechanism 29 which is effective to retain the back rest 23 at its retracted position comprises a horizontal operating rod 113 reciprocally mounted in bushings 115 contained in the center post 56 and the outer post member 55 of the rear frame panel 17. The central portion 117 of the rod 113 is offset forwardly to provide clearance for the vertical spoke members 63 which extend between the cross bars 59 and 61 of the frame panel, and the rod is provided at its outer end with an operating handle 119 which is accessible from the side of the sofa bed, as shown in Figs. 1 and 2. Secured to the rod 113 adjacent the central post 56 of the rear frame panel is a latch member 121 (Figs. 7 and 8) having a hook portion 123 adapted to engage the central telescopic link 107 when the back rest is retracted.

The forward edge of the hook 123 is beveled to permit the hook and operating rod to be displaced sidewardly by the telescopic link 107 when the back rest is urged toward its retracted position. A spring 125 surrounding the operating rod and compressed between the inner wall of the outer post 55 of the rear frame panel and a washer 127 pinned to the operating rod, urges the hook 123 into latching position when the back rest member is fully retracted (Fig. 8). The latch member is provided on its upper edge with an L-shaped seat 129 (Fig. 7) which slidably

engages the lower forward corner of the upper cross member 59 of the rear frame panel to brace the latch member against rearward displacement during latching engagement of the hook with the telescopic link.

The couch section 25 comprises a mattress or upholstered cushion 131 supported upon a box spring 133 of more or less standard construction. Secured to the underside of the wooden frame of the box spring adjacent either end thereof is a pair of spaced apart angle iron members 135 between which the support rollers 27 and 28 are journaled. The rollers are spaced apart in front to rear direction of the sofa bed and, referring to Fig. 2, it will be noted that the forward rollers 27 are spaced substantially rearwardly of the forward edge of the couch section 25. This arrangement is desirable in order that sufficient forward displacement of the couch section may be obtained without requiring that the forward rollers 27 leave the tracks 21, and to prevent protrusion of the tracks beyond the forward edge of the couch section when the latter is latched at its rearward sofa position.

In view of the fact, however, that the couch section is desirably constructed so as to be as light in weight as possible, it is desirable to provide means to prevent upward tilting movement of the rear portion of the couch section about the rotational axis of the forward rollers 27 when weight is placed on the forward edge of the couch section. In the illustrated embodiment, this tilting motion is prevented when the couch section occupies its rearward sofa position by means of rearwardly extending brackets 137 secured to the box spring 133 and having upwardly extending flanges 139 provided with apertures adapted to receive the locator pins 47 disposed at the rearward ends of the tracks 21 (Figs. 2 and 11).

On the other hand, when the couch section 25 occupies its forward or sleeping position, tilting movement of the couch section is prevented by means of legs 141 secured to the frame of the box spring 133 at the forward edge thereof. These legs are desirably made adjustable and may, for example, comprise a foot or pad having a threaded stem received within an appropriate fitting secured to the box spring frame. A lock nut on the threaded stem serves to maintain any desired extension of the legs. The desirability of making the legs adjustable will be apparent when it is considered that the sofa bed will normally be placed against a wall with at least the forward edge of the sofa frame resting upon a rug, the thickness of which may vary from one installation to another so as to require that the legs be raised and lowered to accommodate this variation in thickness.

To secure the couch section 25 at its rearward sofa position, there is provided on the rear side of the box spring 133 frame a U-shaped bracket 143, best shown in Fig. 10, which is engageable with an upwardly displaceable latch bar 145 reciprocally mounted on the rear frame panel 17. The latch bar is supported adjacent its lower end by a bracket 147 secured to the central post 56 of the rear panel and adjacent its upper end by a bushing 149 secured within the lower cross bar 61 of the rear frame panel. The lower engaging end of the latch bar 145 is beveled on its forward side so as to be cammed upwardly by contact with the aforementioned U-shaped bracket 143 secured to the box spring. Upward movement of the latch bar compresses a spring 151 which surrounds the latch bar 145 between

the underside of the lower cross bar 61 and a washer 153 secured to the latch bar, which spring, in turn, returns the latch bar into latching engagement with the inside of the U-shaped bracket 143 when the couch section 25 has been moved sufficiently rearwardly.

The upper end of the latch bar 145 is pivotally connected by means of a pin-and-slot lost motion connection 155 to one arm of a bell crank 157 pivoted on the central post 56 of the rear frame panel. The other arm of the bell crank is pivotally connected to the inner end of the operating rod 113 on which the back rest latch hook 123 is mounted. It will be apparent by inspection of Fig. 3 that an outward pull on the operating handle 119 is effective to unlatch the back rest and couch section simultaneously. However, the lost motion connection between the latch bar 145 and the bell crank 157 permits the couch section to be moved rearwardly into latched position without disabling the back-rest latch. This arrangement of the latches is desirable since when the back rest 23 is retracted and the couch section 25 is displaced forwardly to facilitate cleaning, the return of the couch section to its rearward latched position would otherwise be accompanied by abrupt return of the back rest to its normal position.

To prevent damage either to the couch section or to the supporting frame by forceful shifting of the couch section into its latched, rearward position, there is provided in the central post 56 of the rear frame panel a resilient bumper which engages the rear wall of the box spring approximately simultaneously with the engagement of the U-shaped latch bracket 143 with the vertical latch bar 145. The bumper takes the form of a plunger 159 which is slidably mounted in a suitable housing 161 secured within the central post 56 (Fig. 4). A compression spring 163 urges the plunger forwardly against an apertured cover plate 165 secured to the front of the post 56. Shoulders 167 formed on the plunger 159 engage the rear side of the cover plate to retain the plunger within the housing 161. In addition to cushioning the movement of the couch section into its rearward, latched position, the bumper incidentally assists the weight of the couch section in overcoming friction to initiate forward movement of the couch section when its latch has been disabled.

During ordinary daytime use of a sofa bed embodying the invention, the couch section will normally be made up as a bed, covered with an appropriate slipcover and disposed at its rearward sofa position, as indicated in Fig. 1. When the guest or occupant of the hotel or dormitory room in which the sofa is located desires to retire, he needs only to pull the latch handle 119 whereupon the couch section moves forwardly by gravity to the sleeping position. The guest then removes the slipcover to expose a made-up bed, ready for sleeping.

If the back cushions 33 rest loosely against the back support panel of the back rest, it will, of course, be necessary to remove them before the couch section is permitted to move to its forward position, but as previously mentioned, these cushions may, if desired, be secured to the back support panel 67 of the back rest. To obtain the bed pillows, the guest merely raises the shelf member 65 of the back rest which gives him access to the compartment in which these pillows will normally be stored. Thus, from the point of view of the guest, the conversion of the

sofa bed from sofa to sleeping use is extremely simple and may be performed at will by the guest himself without requiring assistance from the hotel personnel.

The sofa bed will normally be restored to sofa use in the morning by the chambermaid who simply remakes the bed, replaces the slipcover, and moves the couch section rearwardly to its latched, sofa position. If the back support cushions are not attached to the back rest, they are replaced on the couch section and the bed pillows are again stored in the compartment within the back rest.

If it is desired to clean the floor space beneath the couch section, or if for ease of making the bed it is desired to shift the couch section forwardly of the normal bed position, this may be done by lifting the rear edge of the couch section to permit the rear rollers 28 to clear the stop members 49, whereupon the couch section may be shifted forwardly clear of the sofa frame. To further facilitate access to the floor space beneath the couch section, the entire back rest may be retracted upwardly and rearwardly, and automatically latched in its retracted position. When the cleaning has been completed, the couch section may be shifted rearwardly back onto the track, over the stop members 49 and into its latched rearward sofa position. Because of the lost motion connection 155 between the couch section latch bar 145 and the bell crank 157, the back rest latch 123 is not disabled during the latching engagement of the couch section with its associated latch bar 145 but rather retains the back rest at its retracted elevated position. To restore the back rest to its normal, forwardly-extending position, the chambermaid pulls outwardly on the handle 119 which disengages the hooked latch member 121 from the telescopic spacing link 107, permitting the back rest to descend by gravity to its normal position.

It will be apparent from the foregoing description that a sofa bed embodying the present invention is one which may be simply and practically entirely automatically converted from sofa to bed use with a very minimum of effort and with no special acquaintance with the sofa bed mechanism. As such, it is, therefore, a unit of convertible furniture which recommends itself particularly for use in hotels and other transient lodgings and for school dormitories or the like where it is desirable, in the interest of appearance and space economy, to provide sleeping accommodations which may also serve for ordinary living use.

Various features of the invention believed to be new and patentable are set forth in the appended claims.

We claim:

1. A sofa bed comprising a normally stationary sofa frame including a back rest positioned forwardly of the upper rear portion of said frame and a ramp portion extending forwardly and downwardly from the lower rear portion of said frame, a couch section movably supported on said ramp portion, releasably interengageable latch members on said frame and said couch section for holding said couch section at a rearward position on said ramp portion with said couch section partially underlying said back rest to form a sofa, said couch section being shiftable by its own weight, upon release of said latch member, to a forwardly disposed position to expose substantially the entire area of said couch section for sleeping purposes, and means

for effecting disengagement of said latch members.

2. A sofa bed comprising a normally stationary sofa frame including an upwardly extending back portion and a forwardly extending base portion, a back rest positioned forwardly of the upper end of said back portion, a pair of spaced parallel tracks supported on said base portion and extending forwardly and downwardly from said back portion, a couch section having rollers journaled on its underside for movably supporting said couch section on said tracks, a latch member on said frame engageable with said couch section for holding said couch section at a rearward position on said tracks with said couch section partially underlying said back rest to form a sofa, said couch section being shiftable by its own weight upon release of said latch member to a forwardly disposed position to expose substantially the entire area of said couch section for sleeping purposes and means for effecting disengagement of said latch member.

3. A sofa bed comprising a normally stationary sofa frame including an upwardly extending back portion and a forwardly extending base portion, a back rest positioned forwardly of the upper end of said back portion, a pair of spaced parallel tracks supported on said base portion and extending forwardly and downwardly from said back portion, a couch section having journaled on its underside a plurality of rollers for movably supporting said couch section on said tracks, a releasable latch member on said frame engageable with said couch section for holding said couch section at a rearward position on said tracks with said couch section partially underlying said back rest to form a sofa, said couch section being shiftable by its own weight upon release of said latch member to a forward position at which substantially the entire area of said couch section is exposed for sleeping purposes, a stop member on said frame for limiting forward movement of said couch section at said forward position, the forwardmost ones of said rollers being disposed substantially rearwardly of the forward edge of said couch section, inter-engageable stop members on said frame and on the rear edge of said couch section for preventing upward tilting movement of said rear edge by weight placed on the forward edge of said couch section when said couch section occupies said rearward position, and an adjustable leg member at the front edge of said couch section for preventing said tilting movement when said couch section occupies said forward position.

4. A sofa bed comprising a normally stationary sofa frame including a back rest extending forwardly from the upper rear portion of the frame and a forwardly and downwardly inclined ramp portion extending downwardly from the lower rear portion of the frame, a couch section movably supported on said ramp portion, releasably interengageable latch members on said frame and said couch section for holding said couch section at a rearward position on said ramp portion with said couch section partially underlying said back rest to form a sofa, said couch section being shiftable by its own weight upon release of said latch members to a forwardly disposed position to expose substantially the entire area of said couch section for sleeping purposes, resilient means interposed between said frame and said couch section and effective only during the initial portion of the forward movement of

said couch section to urge said couch section forwardly.

5. In a sofa bed having a seat section and an upwardly extending frame portion behind said seat section; a retractable back rest normally overlying a rear portion of said seat section to form therewith a sofa, said back rest comprising a back support member normally disposed forwardly of said frame portion, upper and lower spacing members pivoted to back support member and to said frame portion for maintaining said back support member at its forward position, an extensible link connected at one end to said back rest adjacent the pivotal connection of said upper spacing member and said back support member and at its other end to said frame portion adjacent the pivotal connection of said lower spacing member to said frame portion, said back rest being shiftable rearwardly and upwardly about the pivotal connections of said spacing members to said frame portion to a retracted elevated position, and a releasable latch on said frame portion engageable with said extensible link to hold said back rest in said retracted position.

6. In a sofa bed having a seat section and an upwardly extending frame portion behind said seat section; a retractable back rest normally overlying a rear portion of said seat section to form therewith a sofa, said back rest comprising a back support member normally disposed forwardly of said frame portion, upper and lower spacing members pivoted to said back support member and to said frame portion for maintaining said back support member at its forward position, said lower spacing member including a panel adapted to provide a floor for the space behind said back support member, an extensible link connected at one end to said back rest adjacent the pivotal connection of said upper spacing member and said back support member and at its other end to said frame portion adjacent the pivotal connection of said lower spacing member to said frame portion, an upper shelf member hinged adjacent its edge to said rear frame portion and adapted to form a closure for said space, said back rest being shiftable upwardly and rearwardly to a retracted, elevated position, and a releasable latch on said frame portion engageable with said extensible link to hold said back rest in said retracted position, said shelf member being independently shiftable to provide access to said space when said back support member occupies its normal forwardly disposed position.

7. A sofa bed comprising a normally stationary supporting frame, an upwardly and rearwardly retractable back rest normally extending forwardly from the upper rear portion of said frame, a seat section shiftable supported on said frame for movement from a rearward sofa position partially underlying said back rest to a forward position on said frame at which substantially the entire area of said seat section is available for sleeping purposes, means urging said seat section toward said forward position, a releasable latch member on said frame engageable with said seat section to hold the latter at said rearward position, a second releasable latch member on said frame engageable with said back rest to hold the latter at said retracted position, manually operable means for releasing both said latch members, and a lost motion connection between said latch members whereby said seat section may be shifted into its rearward position to engage

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said first mentioned latch member without releasing said second latch member.

8. A sofa bed comprising a normally stationary supporting frame, an upwardly and rearwardly retractable back rest normally extending forwardly from the upper rear portion of said frame, a seat section shiftably supported on said frame for movement from a rearward sofa position partially underlying said back rest to a forward position on said frame at which substantially the entire area of said seat section is available for sleeping purposes, means urging said seat section toward said forward position, a vertical reciprocable latch bar on said frame adapted to engage said seat section to hold the latter at said rearward position, a horizontally reciprocable latch bar on said frame adapted to engage said back rest to hold said back rest at said retracted position, separate resilient means urging said latch bars toward their engaging positions, a bell

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crank pivoted on said frame and having an arm connected to each of said latch bars, a handle connected to said horizontal bar for releasing both of said latches, one of said connections of said bars to said crank being a lost motion connection whereby said seat section may be shifted into its rearward position to engage said vertical latch bar without releasing said horizontal latch bar.

JOHN S. PETERSEN.
HARRY E. COSHUN.

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