July 29, 1952 E. B. DAVIS 2,604,926

COMBINATION BED AND CHAIR

Filed Nov. 22, 1949 2 SHEETS—SHEET 1

FIG. 1

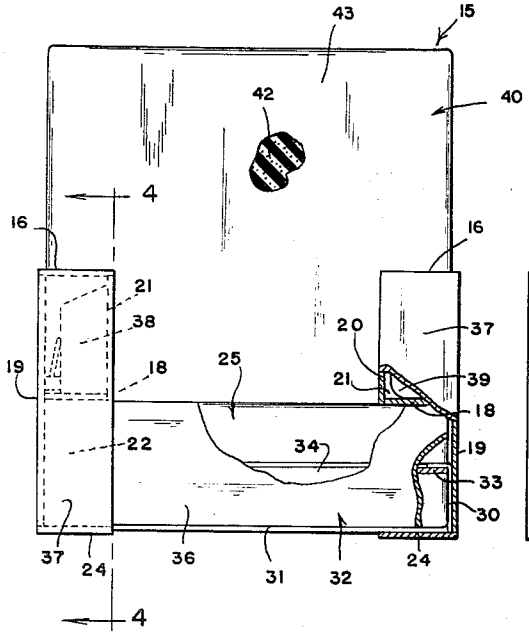


FIG. 11.

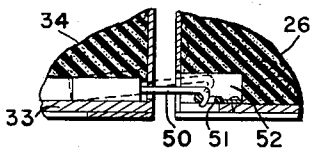


FIG. 2

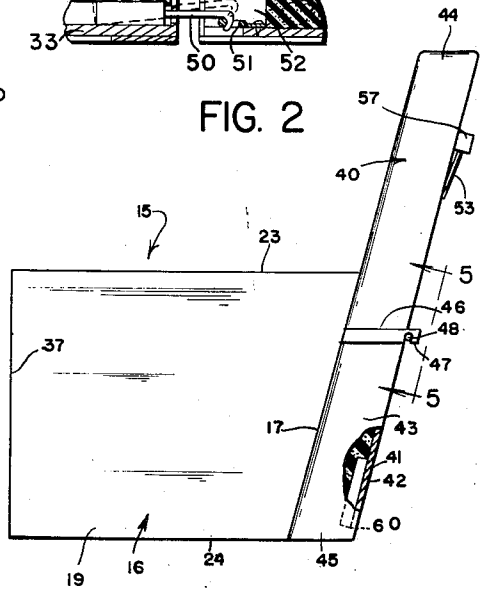


FIG. 3

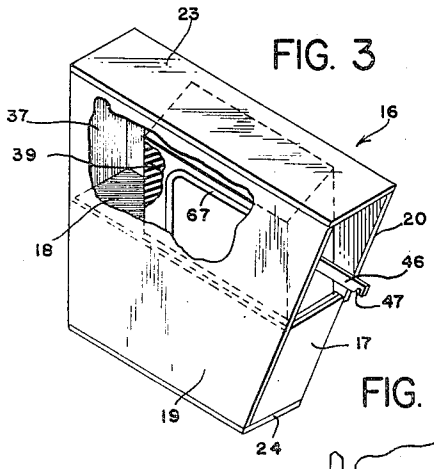


FIG. 4

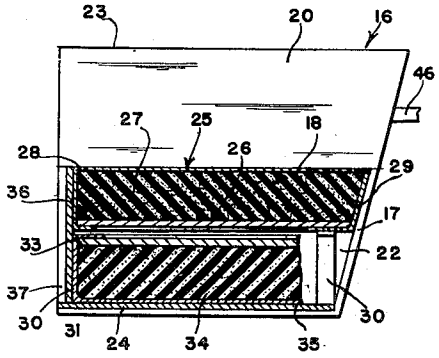
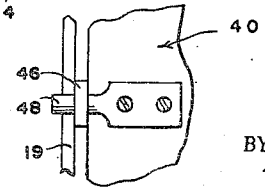


FIG. 5



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FIG. 6

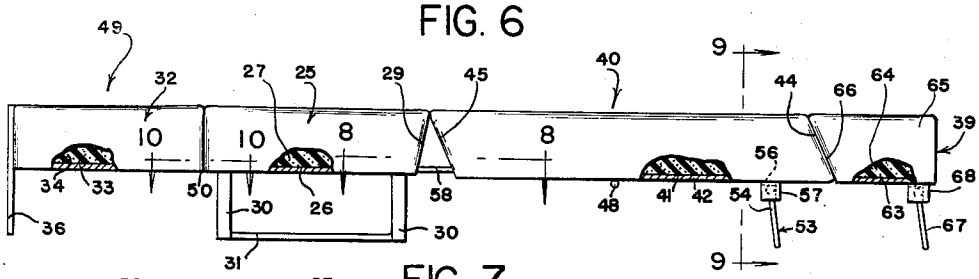
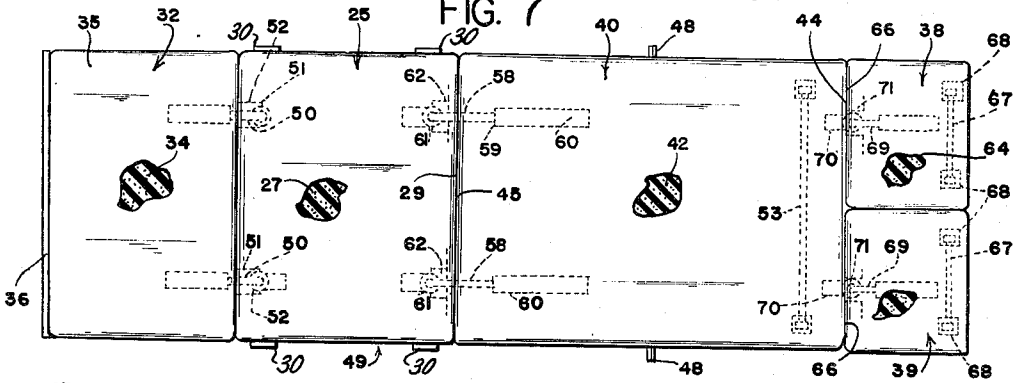


FIG. 7



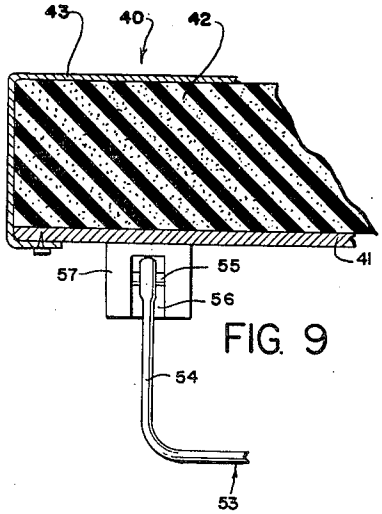


FIG. 9

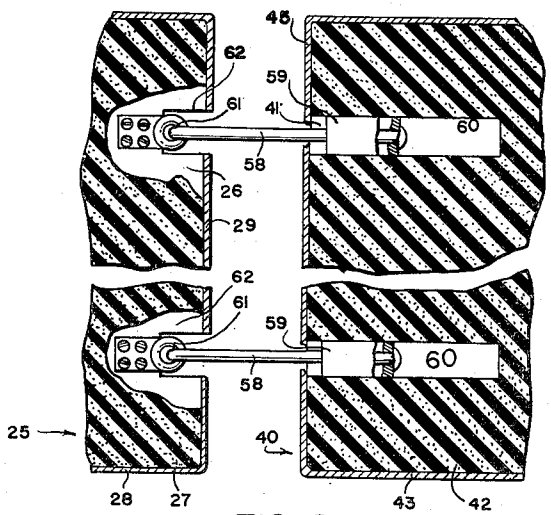


FIG. 8

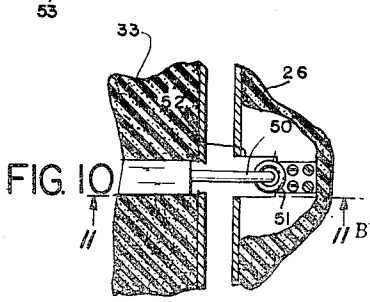


FIG. 10

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COMBINATION BED AND CHAIR

Edgar B. Davis, Tangerine, Fla.

Application November 22, 1949, Serial No. 128,858

3 Claims. (Cl. 155—45)

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My invention relates to a combined bed and chair.

A primary object of the invention is to provide a combined bed and chair wherein a plurality of separate sections may be arranged to form a lounge chair, and readily rearranged and connected for forming a full size single bed.

A further object is to provide a combined bed and chair, wherein the chair formed by the device will be smaller and less bulky than combination chairs now on the market.

A further object is to provide a device of the above-mentioned character wherein a novel and extremely compact arrangement of parts is achieved when the elements of the device are assembled to form a lounge chair, so that the lounge chair will not appear to be excessively large or bulky, and yet when the elements are rearranged and assembled to form a bed, such bed will be as large as a conventional full size single bed.

A still further object of the invention is to provide a device of the above-mentioned character which is highly simplified, strong and durable, and which should be relatively inexpensive to manufacture.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this application, and in which like numerals are employed to designate like parts throughout the same;

Figure 1 is a front elevation of a combined bed and lounge chair embodying my invention, and showing the elements of the device assembled to form the lounge chair, parts broken away and parts in section;

Figure 2 is a side elevation of the device as shown in Figure 1;

Figure 3 is a perspective view of a chair arm section and associated elements removed, parts broken away;

Figure 4 is a fragmentary vertical section taken on line 4—4 of Figure 1;

Figure 5 is a fragmentary side-elevation taken on line 5—5 of Figure 2;

Figure 6 is a side elevation of my combined device showing the elements thereof assembled to form a full size single bed;

Figure 7 is a plan view of the device illustrated in Figure 6;

Figure 8 is an enlarged fragmentary horizontal section taken on line 8—8 of Figure 6;

Figure 9 is an enlarged fragmentary vertical section taken on line 9—9 of Figure 6; and

Figure 10 is an enlarged fragmentary horizontal section taken on line 10—10 of Figure 6.

Figure 11 is a view taken on the line 11—11 of Figure 10.

In the drawings, where, for the purpose of illustration, is shown a preferred embodiment of my invention, the numeral 15 designates my combined device assembled in the form of a conventional lounge-type or easy chair. The device so assembled comprises a pair of laterally spaced,

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opposed, side sections or arms 16 which are substantially hollow for purposes to be described. The side sections 16 are generally rectangular, but include rear ends 17 which are inclined slightly with respect to the vertical, Figure 2. The side sections 16 are provided substantially at their vertical centers with horizontal shelves or partitions 18 extending between the sides 19 and 20 of the side sections 16 and dividing the same into upper and lower separate compartments 21 and 22. The outer sides 19 of the sections 16 extend for the entire height of the same, while the inner sides 20 extend only from the horizontal shelves 18 to the tops 23 of the side sections 16, whereby the inner sides only of the lower compartments 22 are open. Likewise, the rear end 17 of each side section 16 extends only from the horizontal shelf 18 to the bottom 24 of the side section, whereby the rear end only of the upper compartment 21 is open, Figure 3. The arms or side sections 16 are preferably formed of plywood or the like, and may be covered with suitable upholstery or like material in any manner desired.

An upper horizontal, generally rectangular seat section 25 is provided comprising a bottom, flat, plywood panel 26 having a thick, soft cushion of foam rubber or the like 27 mounted thereon and secured thereto with cement or the like. The cushion 27 and panel 26 may be covered with upholstery 28 or the like, as shown. The rear end 29 of the upper seat section 25 has a slight rearward inclination conforming to the inclination of the rear end 17 of each side section 16. Rigidly secured to the bottom panel 26 of the upper seat section 25 at the four corners of the same are depending vertical legs 30. The opposite sides of the upper seat section 25 are adapted to engage in the lower compartments 22 of the side sections 16, Figure 1, and the legs 30 are of such heights that the top of the cushion 27 will contact the bottoms of the shelves or panels 18 when the opposite sides of the upper seat section 25 enter the compartments 22. A flat, rectangular, horizontal panel or dust board 31 is rigidly secured at its corners to the bottoms of the legs 30 and extends continuously throughout the length and width of the upper seat section 25. The bottoms of the legs 30 are flush with the bottom of the dust board 31, so that the legs and dust board 31 may rest upon the bottoms 24 of the side sections 16 when the parts are assembled to form a chair, Figure 1. As shown in Figures 1 and 7, the legs 30 are positioned outwardly of the sides of the seat section 25, so that the lower seat section 32, which is of the same width as the upper end section 25, can be passed between the legs 30 to its position beneath the upper seat section, shown in Figure 1, when the device is set up in its chair form.

A second or lower seat section 32 is provided and arranged beneath the upper seat section 25 and upon the dust board 31. This seat section 32 comprises a top, substantially rigid, rectangular, flat panel 33 of plywood or the like, having secured to its bottom a soft, thick, rectangular

cushion 34 of foam rubber, and the cushion 34 and panel 33 may be covered with upholstery 35 or the like. Rigidly secured to the forward edge of the plywood panel 33 is a forward, vertical, flat panel or extension 36 which extends adjacent to the forward side of the cushion 34 from the bottom of this cushion to a point adjacent to the top of the cushion 27 in the upper seat section 25, Figures 1 and 4. The lower seat section 32 is of the same width as the upper seat section 25 and is also adapted to enter the lower compartments 22 of the side sections 16 between the legs 30 on opposite sides of the upper seat section 25. When introduced into the compartments 22, the lower seat section 32 has its forward, upstanding panel 36 arranged between the shelves 18 and bottoms 24 of the side sections and inwardly of the front ends 37 of the side sections 16. In assembly, the covering of the top panel 33 engages beneath the covering of the bottom of the panel 26, and the covering of the bottom of the cushion 34 engages upon the dust board or panel 31, as previously stated. The opposite sides of the upper and lower seat portions 25 and 32 are thus completely housed within the lower compartments 22 of the side sections 16, and the upper portions of the side sections 16, project above the upper seat sections 25 to form arms for the lounge chair, as shown.

Removably mounted within the upper compartments 21 of the side sections 16 are head cushion sections 38 and 39 for use in forming the bed, to be described.

A substantially rectangular, flat, reclining back section 40 is provided and comprises a rear, flat, plywood panel 41 having a soft, thick cushion 42 of foam rubber or the like secured to its forward face with cement or the like. The cushion 42 and panel 41 of the back may be covered with an envelope 43 of upholstery or the like. The back section 40 extends short of the entire width or distance between the outer sides 19 of the side sections 16. The back section 40 extends for a substantial distance above the tops of the side sections 16, as shown, and is arranged at a slight rearward inclination corresponding to the inclination of the rear sides 17 and the rear end 29 of seat section 25. The top 44 and bottom 45 of the back section 40 are arranged horizontally, when the back is inclined, as shown in Figure 2.

For securing the back section 40 to the rear ends 17 of the side sections 16, I provide rearwardly extending arms 46 rigidly secured to the inner surfaces of the outer sides 19, and projecting longitudinally rearwardly of the ends 17 and adjacent to the opposite sides of the back section 40, Figure 2. The arms 46 are provided near their rear ends and in their bottom edges with notches 47 receiving laterally outwardly extending pins 48 rigidly secured to the rear side of the back section 40 adjacent to the arms 46 and projecting laterally outwardly beyond the opposite sides of the back section.

For assembling the combined device for use as a lounge chair, it is merely necessary to arrange the lower seat section 32 beneath the upper seat section 25 in the manner described, and then introduce the opposite sides of the thus arranged upper and lower seat sections within the lower compartments 22 of the side sections 16. The back section 40 is then arranged adjacent to the rear ends 17 of the side sections and the lateral pins 48 are introduced into the notches 47 of the arms 46 for rigidly securing the back to the side sections 16.

The various parts of the combined device assembled to form the lounge chair 15 can be readily taken apart and reassembled to form a full size single bed, designated generally by the numeral 49, Figures 6 and 7. In order to form the bed 49, the elements forming the chair 15 are disassembled, and the sides or arm sections 16 may be discarded. The upper seat section 25 placed upon its legs 30, as shown in Figure 6. The upper seat section 25 thus arranged forms an intermediate section of the bed 49. The lower seat section 32 is inverted, so that the panel 33 is arranged lowermost, and the forward panel 36 depends vertically below the panel 33 to form a support or leg for the foot end of the bed 49. When thus arranged, the lower seat section 32 forms one end or foot section of the bed 49.

Means are provided for detachably connecting the adjacent ends of the seat sections 25 and 32, as arranged in Figure 6, and such means comprises a pair of laterally spaced pivoted hooks 50 carried by the end of the seat section 32 remote from the panel 36 and operatively engaging in eyes or loops 51 secured within openings or notches 52 in the forward end of the upper seat section 25.

The bed 49 further comprises a second intermediate section formed by the chair back 40 by arranging the chair back section horizontally with its rear panel 41 lowermost. For supporting the back section 40 in the horizontal position in the making of the bed 49, the back section is provided near and inwardly of its outermost end, Figure 6, with a depending pivoted U-shaped bail or leg 53 having the tops of its opposite upstanding ends 54 pivotally connected with transverse pins 55 mounted within vertically disposed openings or slots 56 of depending blocks 57, rigidly secured to the panel 41 of the back 40 and projecting below the same, Figure 6. The left sides only, Figure 6, of the notches 56 are open, so that when the bail or leg 53 is swung downwardly to the slightly inclined or past-dead-center position of Figure 6, the upstanding ends 54 of the legs will engage the closed side of the slot 56 for supporting the adjacent end of the back 40. The opposite end of the back 40 is detachably connected with the adjacent end of the upper seat section 25 by means of laterally spaced hooks 58 longitudinally slidably mounted in blocks 59 rigidly secured within openings or sockets 60 formed in the end 45 of the back section 40. The openings 60 are elongated, so that when the combined device is being used as a chair, the hooks 58 may be telescoped and concealed within the openings 60. As shown in Figure 6, the hooks 58 are extended, and operatively engaging in eyes or rings 61 rigidly mounted within openings or sockets 62 provided in the end 29 of the upper seat section 25.

The other end or head section of the bed 49 is formed by the sections 38 and 39 which were stored within the upper compartments 21 of the side sections 16 when the combined device was being used as a chair. Each of the sections 38 and 39 comprises a bottom, flat, plywood panel 63 having secured to the top face thereof a foam rubber cushion of the same thickness as the back cushion 42, and designated by the numeral 64. The cushions 64 and bottom panels 63 of the sections 38 and 39 may be covered with suitable upholstery 65. The inner ends 66 of the sections 38 and 39, Figure 6, are inclined slightly with respect to the vertical to conform to the inclination of the adjacent end 44 of the back 40.

Each of the sections **38** and **39** is provided at its bottom near its outer end with a pivoted, depending, U-shaped bail or leg **67** pivotally connected with laterally spaced, depending blocks **68** secured to the panels **63**, in exactly the same manner that the bail or leg **53** is pivotally secured to its blocks **57**. The bails or legs **67** are identical with the bail **53**, except that they are longitudinally shorter, since each section **38** and **39** is only half as wide as the back **40**, Figure 7. The bails **67** serve the same purpose as the bail **53**, namely, for supporting the adjacent ends of the head sections **38** and **39**, Figure 6. The inner ends **66** of the head sections are supported and detachably connected with the end **44** of the back section **40** by means of single hooks **69** secured to the inner ends of the sections **38** and **39** at the transverse centers of such sections, and operatively connected with rings or eyes **70** arranged in openings or notches **71** formed in the adjacent end **44** of the back section **40**. The single hooks **69** are sufficient to support the forward or inner ends of the sections **38** and **39**, since the engaging, inclined ends **44** and **66** will counteract any tendency which the sections **38** and **39** may have to tilt laterally.

With the various parts thus arranged, as shown clearly in Figures 6 and 7, a full size single bed is provided, the top surface of which is substantially flush and continuous, as well as being perfectly level. The combined device can be quickly reassembled to form the lounge chair **15**, when desired.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same, and that various changes in shape, size and arrangement of parts may be resorted to without departing from the spirit of my invention or the scope of the subjoined claims.

Having thus described my invention, I claim:

1. In a combined chair and bed, a pair of laterally spaced vertical side sections, said side sections being formed in their lower portions with compartments open at the inner sides thereof, an upper seat section positioned between said side sections having depending legs on its opposite sides, side portions of said upper seat section being separably positioned within the compartments of the side sections, a lower seat section separably positioned beneath said upper seat section and between the depending legs of the upper seat section, side portions of said lower seat section being separably positioned within the compartments of said side sections, a vertical back section separably engaged with ends of said side sections and extending between and rising above said side sections, and separable securing means securing said back section in position, said securing means being separable to permit removal of said back section and to free said side sections for lateral withdrawal from said upper and lower seat sections.

2. In a combined chair and bed, a pair of laterally spaced vertical side sections, said side sections being formed in their lower portions with compartments open at the inner sides thereof, an upper seat section positioned between said side sections having depending legs on its opposite sides, side portions of said upper seat section being separably positioned within the compartments of the side sections, a lower seat section separably positioned beneath said upper seat section and between the depending legs of the upper seat section, side portions of said lower seat section being separably positioned within the compartments of said side sections, a vertical back section separably engaged with ends of said side sections and extending between and rising above said side sections, and separable securing means securing said back section in position, said securing means being separable to permit removal of said back section and to free said side sections for lateral withdrawal from said upper and lower seat sections, said lower seat section having a rigid dust panel on the end thereof remote from said back section, said dust panel rising from said lower seat section to cover the adjacent end of said upper seat section.

3. In a combined chair and bed, a pair of laterally spaced vertical side sections, said side sections being formed in their lower portions with compartments open at the inner sides thereof, an upper seat section positioned between said side sections having depending legs on its opposite sides, side portions of said upper seat section being separably positioned within the compartments of the side sections, a lower seat section separably positioned beneath said upper seat section and between the depending legs of the upper seat section, side portions of said lower seat section being separably positioned within the compartments of said side sections, a vertical back section separably engaged with ends of said side sections and extending between and rising above said side sections, and separable securing means securing said back section in position, said securing means being separable to permit removal of said back section and to free said side sections for lateral withdrawal from said upper and lower seat sections, said lower seat section having a rigid dust panel on the end thereof remote from said back section, said dust panel rising from said lower seat section to cover the adjacent end of said upper seat section, said upper seat section being arranged to be withdrawn from between the side sections and supported on its legs, the lower seat section being arranged to be withdrawn from between the side sections and from its original position between said legs and beneath the upper seat section and inverted to be supported by said dust panel, first connecting means for detachably connecting said upper and lower seat sections in end-to-end horizontal relation to form part of a bed, said separable securing means being separable to permit said back section to be separated from said side sections and positioned in horizontal end-to-end relation with said upper seat section, second connecting means for detachably connecting the adjacent ends of said upper seat section and back section, and support means on said back section arranged to support said back section on a level with said upper and lower seat sections.

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