

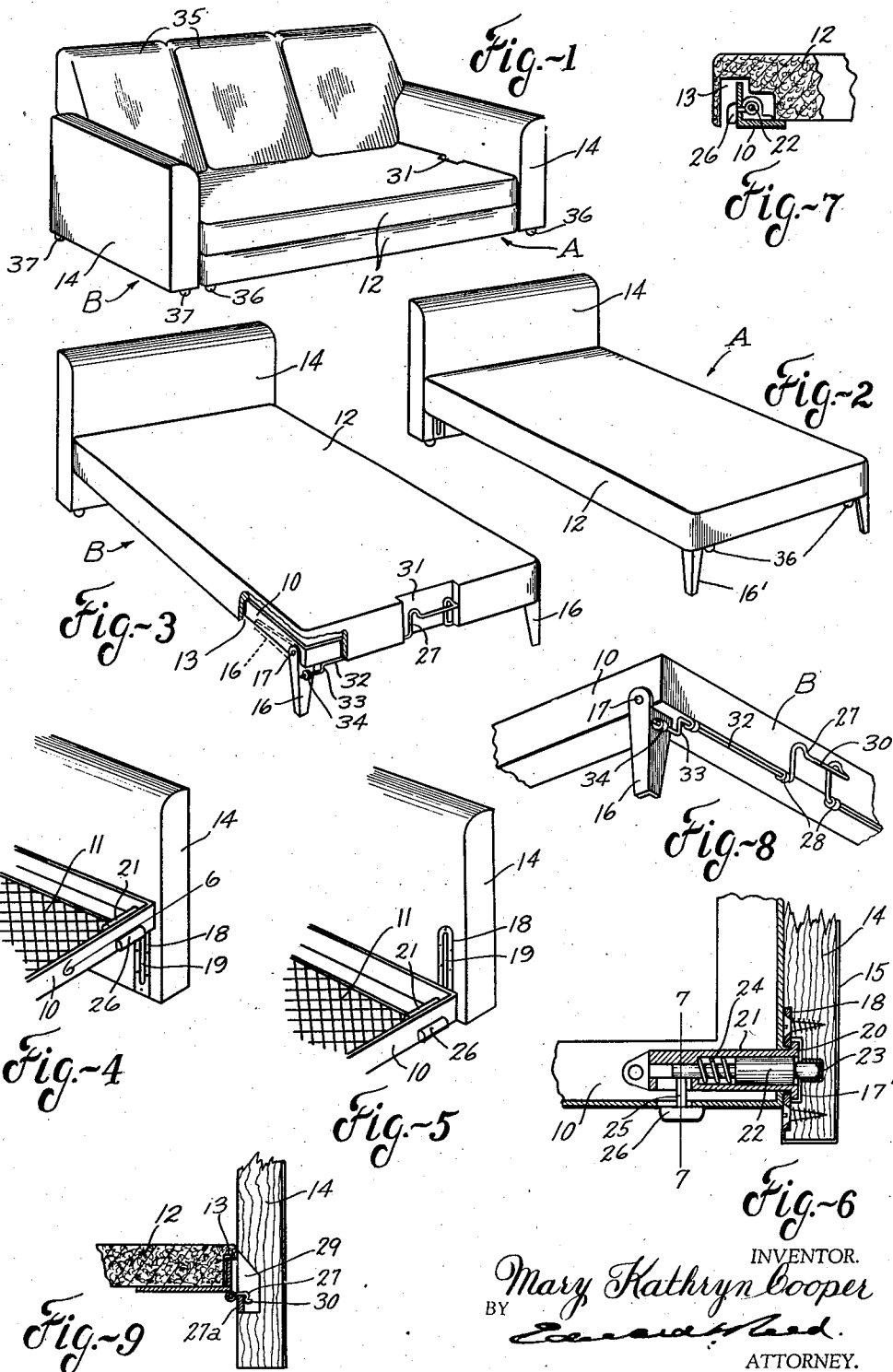
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CONVERTIBLE DAVENPORT

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CONVERTIBLE DAVENPORT

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This invention relates to a convertible davenport and one object of the invention is to provide a davenport which can be easily converted into a bed and will be comfortable and of attractive appearance when used either as a davenport or as a bed.

A further object of the invention is to provide such a davenport which when converted to bed form may be used either as a double bed or as twin beds.

A further object of the invention is to provide such a davenport which may be converted into two separate beds each having a head board and closely resembling a single bed of modern design.

A further object of the invention is to provide two separate bed units which can be superposed one upon the other to form a davenport.

A further object of the invention is to provide a davenport comprising separate bed units in which the spring and mattress of at least one bed unit will be vertically adjustable to adapt the same for use as a bed or as a davenport.

Other objects of the invention may appear as the same is described in detail.

In the accompanying drawing Fig. 1 is a perspective view of the davenport; Fig. 2 is a perspective view of the lower bed unit adjusted to bed position; Fig. 3 is a perspective view of the upper bed unit, partly broken away; Figs. 4 and 5 are perspective views of portions of the lower bed unit showing the frame in adjusted positions with relation to the upright end member; Fig. 6 is a sectional detail view of the device for locking the frame in vertically adjusted positions, taken on the line 6-6 of Fig. 4; Fig. 7 is a section taken on the line 7-7 of Fig. 6; Fig. 8 is a perspective view of a portion of one of the bed frames showing the device for connecting the two units one to the other and for actuating the bed legs; and Fig. 9 is a sectional view taken through the connecting device.

In the drawing I have shown one embodiment of the invention, for the purpose of illustration, and it is to be understood that the several parts of the structure may take various forms and that the bed units may be so designed that when assembled they will produce a davenport differing materially in appearance from the one here illustrated.

The davenport comprises two separate bed units each including a horizontal frame and a mattress, herein referred to as the bed portion, and an upright member, or head board, secured to one end of the bed portion and extending above the mattress. The bed portion of one bed

unit is secured to its head board near the lower edge of the latter and the bed portion of the other bed unit is secured to its head board at a distance from the lower edge of the latter approximately equal to the height of the mattress of the first mentioned bed unit. The bed units are assembled with the higher bed portion above and extending lengthwise of the lower bed portion and with the head boards at the respective ends of the assembled structure, to form the end members or arms of the davenport, a removable back being arranged adjacent the rear edge of the assembled structure to complete the davenport. The bed units are preferably releasably connected one with the other to prevent the accidental displacement thereof with relation one to the other. The bed units may be of any suitable construction but preferably the frame of each unit supports a bed spring on which the mattress rests. The frame, bed spring and mattress may be separable units or may be combined in a single unit, such for example as a box spring mattress.

As here shown the davenport comprises a lower bed unit A and an upper bed unit B, the bed portion of the unit B being superposed on the bed portion of the unit A and the end members of the two units being arranged at opposite ends of the structure. Each bed unit comprises a frame which is rectangular in form and preferably constructed of angle iron. The angle irons are arranged with their horizontal flanges lowermost and with the vertical flanges extending upwardly from the outer edges of the horizontal flanges. Secured to and carried by the frame is a bed spring of a well known type. Supported on the frame and spring is a mattress. It is desirable that the frame should be concealed, particularly when the bed units are assembled to form a davenport, and this may be accomplished by providing the mattress with parts extending over the exterior surfaces of the frame and covering the same. In the present construction the mattress is provided in its lower surface with a groove or grooves, preferably a continuous groove, extending parallel with and adjacent to the respective edges thereof and adapted to receive the vertical flanges of the respective angle bars, the groove being of such depth that the angle bars are completely concealed. The frame may be made of relatively light material and the mattress is preferably of the sponge rubber type which combines softness with very light weight. The mattress or at least the exposed portions thereof are covered with material suitable for

davenport upholstery. Rigidly secured to one end of each frame 10 is an upright member, or a head board 14, these upright members constitute the arms of the davenport and they may be of any suitable shape which will provide the desired effect in the davenport. They may be made either of wood or of metal and may be covered or uncovered as desired. They are here shown as formed of wood and covered with upholstery material 15, without padding, see Fig. 6. The frame of the upper bed unit may be rigidly connected with its upright end member in any suitable manner, as by bolts, not here shown, and this frame member is provided with foldable legs which may be extended when it is removed from the lower bed unit for use as a bed. These legs may take various forms but are shown at 16 as angular in cross section and pivotally connected at 17 with the side member of the frame 10 so that they may be moved to an inoperative position with their flanges in engagement respectively with the vertical and horizontal flanges of the frame members. Ordinarily the pivotal connection provides sufficient friction to retain the legs in their adjusted positions but obviously retaining means may be provided if found desirable.

The lower bed unit may be utilized as a bed with the bed portion in the position which it occupies when assembled in the davenport and in that position it is secured to its end member 14 at or adjacent to the bottom of the latter. However, it is usually preferable that the bed portion be raised some distance above the floor and to enable this to be done the frame of the lower bed unit A is so connected with its end member 14 that it may be moved upwardly to a level corresponding to the level of the frame of the upper bed unit B, and is provided at that end opposite said end member with foldable legs 16', such as those above described, which may be extended when the frame is moved outwardly with relation to the end member, as shown in Fig. 2. This not only elevates the bed portion of the bed unit A above the floor level but it also enables the two bed units to be placed edge to edge to form a double bed, thus enabling the bed units to be used either as a double bed or as twin beds. The adjustable connection between the frame and end member of the bed unit A may be of any suitable character but preferably it is such as to prevent the separation of the frame from the end member during the adjustment of the former. In the construction here illustrated the end member 14 of this bed unit is provided adjacent each side thereof with a vertical groove 17' and secured to the end member in overlapping relation to the groove 17' is a guide plate 18 having a vertical slot 19. The overlapping edges of the guide plate convert the groove 17' into a T-groove in which is mounted the head 20 of a latch casing 21 rigidly secured to the frame 10 and extending through the groove 19. Slidably mounted in the latch casing is a bolt 22 adapted to enter a locking recess 23 near the upper end of the groove 17' and, if desired, a similar recess near the bottom of the groove. A spring 24 urges the bolt toward the recess and retains the same therein. A pin 25 is rigidly secured to the bolt 22 and extends through slots in the latch casing 21 and in the vertical flange of the frame member 10. Rigidly secured to the pin 25 on the exterior of the flange is a hand grip 25 which may be grasped by the operator to retract the bolt

against the action of the spring. The latch casing is rigid with the frame member and the pin has supporting engagement with the frame member where it passes through the slot therein and serves to support the frame member so that when the bolt has been retracted the end of the frame member can be elevated, or lowered, and the bolt then moved into locking engagement with the recess 23 by moving the handle, or grip, lengthwise of the frame. There is sufficient clearance between the edges of the slot 19 and the latch casing 21 to permit of a slight tilting of the frame when the side portions thereof are raised or lowered one at a time. The handle or grip 26 is located close to the lower edge of the frame member in the groove 13 in the mattress so it can be easily engaged by the fingers of the operator and the flexibility of the overhanging portion of the mattress permits it to be easily operated.

It is desirable that the two bed units be connected one with the other, at one or both ends thereof, to prevent their accidental displacement when in davenport form. In the present instance I have shown the frame 10 of the upper frame unit B as provided with a locking device, here shown as a hook shaped member 27 pivotally mounted at 28 on the end of the frame approximately midway between the sides of the latter and movable into locking engagement with a part of the end member 14 of the other bed unit, A. This locking part is preferably in the form of a bar 27a and to prevent the necessity of spacing the bar from the end member the latter is provided with a recess 29 in which the bar is mounted. The locking member or hook 27 has an offset portion 30 constituting a hand grip whereby it may be moved into and out of locking engagement with the bar 28 and when in such engagement will hold the bed portion of the unit B against movement with relation to the end member 14 of the unit A. The end of the bed portion of unit B may be spaced some little distance from the end member 14 of unit A to permit ready access to the connecting member but preferably the mattress is provided with a recess 31 to facilitate the insertion of the hand in the recess 29 of the end member 14. Thus by reaching into the recess 29 the hand grip 30 may be grasped and an upward pull thereon will first move the connecting member to an inoperative position and will then lift the end of the bed portion of the upper bed unit B and permit the same to be moved off of the bed portion of the lower bed unit A. If desired, this connecting device may also be utilized to move the legs of the bed unit B to their extended position as the latter is elevated and moved to bed forming position. For this purpose the hook shaped member 27 is provided with laterally extending portions 32 provided at their ends with crank arms 33 which are pivotally connected at 34 with the respective legs. In the present instance the parts 27, 32 and 33 are formed from a single rod. It is not essential that the bed portion of the lower frame member A should have locking connection with the upright member 14 of the upper bed section but, if desired, a similar locking device may be provided for this purpose.

The davenport may be provided with a back of any suitable character but preferably a plurality of cushions 35 constitute the back of the davenport and, as here shown, these cushions are intended to rest against the wall. If desired, other supporting means for the cushions may be removably attached to the bed units but ordi-

narly this is not necessary. To facilitate the movement of the davenport as a whole, as well as of the separated units, the unit A is provided at its four corners with casters 36 and the end member 14 of the unit B is provided with casters 37. Thus when the davenport is to be separated into individual beds the back or cushions 35 are removed, the operator reaches his hand through the recess 31 in the upper mattress, grasps the connecting device 27 and pulls upwardly thereon to move the connecting device to an inoperative position and to then lift the end of the bed portion of unit B and move that bed portion off of the bed portion of unit A and to the position where it is desired to use the same. If the bed portion of the lower unit A is connected with the upright member of unit B it will of course be necessary to first release that connection but ordinarily the connection of the upper unit to the upright member of the lower unit is sufficient.

While I have shown and described one embodiment of my invention I wish it to be understood that I do not desire to be limited to the details thereof as various modifications may occur to a person skilled in the art.

Having now fully described my invention, what I claim as new and desired to secure by Letters Patent, is:

1. A davenport comprising two separable bed units each complete in itself and including a horizontal frame, a mattress on said frame and an upright member at one end of said frame extending above the same, the frame of one unit being positioned above and lengthwise of the mattress of the other unit with its end member at that end of said other unit opposite the end member of the latter, and means for connecting the lower frame member with its end member in vertically adjusted positions with relation thereto.

2. A davenport comprising two separable bed units each complete in itself and including a horizontal frame, a mattress on said frame and an upright member at one end of said frame extending above the same, the frame of one unit being positioned above and lengthwise of the mattress of the other unit with its end member at that end of said other unit opposite the end member of the latter, means for connecting the lower frame member with its end member in vertically adjusted positions with relation thereto, said means including a member movably mounted on said frame and a handle having supporting connection with said frame and operative connection with said movable member.

3. A davenport comprising two separable bed units each complete in itself and including a horizontal frame, a mattress on said frame and an upright member at one end of said frame extending above the same, the frame of one unit being positioned above and lengthwise of the mattress of the other unit with its end member at that end of said other unit opposite the end member of the latter, means for connecting the lower frame member with its end member in vertically adjusted positions with relation thereto, said means including a member slidably mounted on said frame for movement into and out of supporting engagement with said end member, and a handle connected with said slidable member to control the movement thereof and to support said frame member when said slidable member is disengaged from said end member.

4. A davenport comprising two bed units each including a horizontal frame, a mattress on said frame and an upright member at one end of said frame extending above the same, the frame of one unit being positioned above and lengthwise of a mattress of the other unit with its end member at that end of said other unit opposite the end member of the latter, means for connecting the lower frame member with its end member in vertically adjusted positions with relation thereto, and means including a guide member rigid with said end member and having a vertical slot, a part rigid with said frame and having interlocking connection with said guide member and vertically movable with relation thereto, a part mounted on said frame for movement into and out of locking engagement with said end member, and a hand grip connected with the last mentioned part to actuate the same and to lift said frame.

5. A davenport comprising two separable bed units each complete in itself and including a horizontal frame, a mattress on said frame and an upright member at one end of said frame extending above the same, the frame of one unit being positioned above and lengthwise of the mattress of the other unit with its end member at that end of said other unit opposite the end member of the latter, a locking member secured to the upright member of one bed unit, a second locking member pivotally mounted on the frame of the other bed unit for movement into and out of operative engagement with the first mentioned locking member and having a part forming a hand grip, an upright pull on which will first move said second locking member to inoperative position and then lift said frame.

6. A davenport comprising two bed units each including a horizontal frame, a mattress on said frame and an upright member at one end of said frame extending above the same, the frame of one unit being positioned above and lengthwise of the mattress of the other unit with its end member at that end of said other unit opposite the end member of the latter, foldable legs mounted on the frame of one bed unit at that end thereof opposite its upright member, a locking device mounted on said end of said frame for movement into and out of locking position and having a part forming a hand grip to move said locking member to unlocking position and to lift said frame, means actuated by said hand grip to move said legs to their extended positions, and a locking member carried by said upright member of the other bed unit to cooperate with the first mentioned locking member.

7. A davenport comprising two bed units each including a horizontal frame, a mattress on said frame and an upright member at one end of said frame extending above the same, the frame of one unit being positioned above and lengthwise of the mattress of the other unit with its end member at that end of said other unit opposite the end member of the latter, legs pivotally mounted on the frame of one bed unit at that end thereof opposite its upright member, a hook-shaped locking member pivotally mounted on said end of said frame for movement into and out of locking position and having a part forming a hand grip to move said locking member to unlocking position and to lift said frame, said locking member having laterally extending axial parts provided with crank arms connected with the respective legs, and a locking member carried by the upright member of the other bed

unit for engagement by said hook shaped locking member.

8. An article of furniture comprising two units each constituting a full length bed and including a horizontal frame, a mattress on said frame, an upright member at one end only of said frame, said upright member having supporting engagement with the floor and extending above said mattress, the frame of one of said bed units being connected with the end member of that unit at a height sufficient to enable said frame to overlie the mattress of the other bed unit, the frame of the first mentioned bed unit extending above and lengthwise of the mattress of the last mentioned unit with its end member at that end thereof opposite the end member of the last mentioned unit, both end members extending above the mattress of the first mentioned unit to form the arm pieces of a davenport, and a removable upright back for said davenport, said first mentioned bed unit being bodily removable from the last mentioned bed unit and having means for supporting the same in a horizontal position independently of said last mentioned bed unit when so removed.

9. An article of furniture comprising two units each constituting a full length bed and including a horizontal frame, a mattress on said frame, an upright member at one end only of said frame, said upright member having supporting engagement with the floor and extending above said mattress, the frame of one of said bed units being connected with the end member of that unit at a height sufficient to enable said frame to overlie the mattress of the other bed unit, the frame of the first mentioned bed unit extending above and lengthwise of the mattress of the last mentioned unit with its end member at that end thereof opposite the end member of the last mentioned unit, both end members extending above the mattress of the first mentioned unit to form the arm pieces of a davenport, a removable upright back for said davenport, said first mentioned bed unit being bodily removable from the last mentioned bed unit and having means for supporting the same in a horizontal position independently of said last mentioned bed unit when so removed, and releasable means for connecting the frame of one bed unit with the end member of the other bed unit.

10. A davenport comprising upper and lower bed units, each bed unit being complete in itself and including a bed portion having at one end thereof an upright member extending upwardly above said bed portion, the bed portion of the upper bed unit being connected with the upright member of that unit at such a height that it may overlie and be supported by the bed portion of the lower bed unit, said end members constituting the arms of the davenport when the bed portion of the upper bed unit is superposed on the bed portion of the lower bed unit, said units being separable for movement to selected positions with relation one to the other, said upper bed unit having at that end thereof opposite said upright member collapsible means for supporting the same in a horizontal position when it is removed from said lower bed unit, a locking bar secured to the end member of one bed unit, and a locking member mounted on the adjacent end of the bed portion of the other bed unit for movement into and out of operative engagement with said locking bar and a hand grip connected with said locking member to actuate the same

and lift said end of the last mentioned bed portion.

11. A convertible article of furniture comprising two separate bed units, each unit being complete in itself and including a bed portion and an upright supporting member at one end only thereof, the bed portion of one of said units being connected with the upright member of that unit at such a height that it may be superposed on and supported by the bed portion of the other unit with its upright member at that end of said other unit opposite the upright member of the latter, said superposed bed portion having at that end thereof opposite its upright supporting member legs to support the same independently of the lower unit, said legs being collapsible to permit said superposed unit to be supported on said lower unit.

12. A convertible article of furniture comprising two separate bed units, each unit being complete in itself and including a bed portion and an upright supporting member at one end only thereof, the bed portion of one of said units being connected with the upright member of that unit at such a height that it may be superposed on and supported by the bed portion of the other unit with its upright member at that end of said other unit opposite the upright member of the latter, said superposed bed portion having at that end thereof opposite its upright supporting member legs to support the same independently of the lower unit, said legs being collapsible to permit said superposed unit to be supported on said lower unit, said lower unit having means whereby the bed portion thereof may be adjusted to an elevated position with relation to its upright supporting member when said units have been separated and having at that end of its bed portion opposite said upright member means for supporting said bed portion in a substantially horizontal position when it has been so adjusted.

13. A davenport comprising separate upper and lower bed units each unit constituting a complete bed including a bed portion and an upright supporting member at one end of and extending upwardly above said bed portion, the bed portions of the two units being connected with the respective upright members at different heights and being arranged one above the other with said end members at the opposite ends of the combined structure, said upright members being of substantially the same height to form the arms of the davenport, the bed portion of said upper unit being supported by said lower bed unit and being removable therefrom to convert said davenport into separately supported beds, said upper bed unit having at that end thereof opposite its upright member collapsible means for supporting the same in a horizontal position when it has been removed from said lower bed unit.

14. A davenport comprising upper and lower bed units each unit constituting a complete bed including a bed portion and an upright member at one end of and extending upwardly above said bed portion, the bed portions of the two units being connected with the respective upright members at different heights and being arranged one above the other with said end members at the opposite ends of the combined structure, said upright members being of substantially the same height to form the arms of the davenport, the bed portion of said upper bed unit being supported by said lower bed unit and being

removable therefrom to convert said davenport into two separately supported beds, collapsible legs secured to the bed portion of the upper bed unit at that end opposite the upright member of said unit and cooperating connecting devices 5 carried by the respective bed units, one of said connecting devices including a part forming a hand grip for moving the same out of engagement with the other connecting device and for lifting the upper bed unit.

15. A davenport comprising two separate bed units each complete in itself and including a horizontal frame having an upwardly extending flange along the front edge thereof, a mattress supported on said frame, and an upright mem- 15 ber secured to said frame at one end thereof and

extending upwardly above said mattress, the frame of one unit being superposed on and extending lengthwise of the mattress of the other unit with its upright member at that end of said other unit opposite the upright member of the latter, said end members forming the arms of the davenport and the front edge of said mattresses constituting the front surface of the davenport seat, each mattress having a downwardly 10 facing groove adjacent the front edge thereof to receive and conceal the flange of its frame, and the upper bed unit having means for supporting the same in a horizontal position when it is removed from the lower bed unit.

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