Nov. 8, 1966 J. C. CERCHI 3,283,341

BED-FORMING SEATING DEVICE

Filed July 27, 1965 2 Sheets-Sheet 1

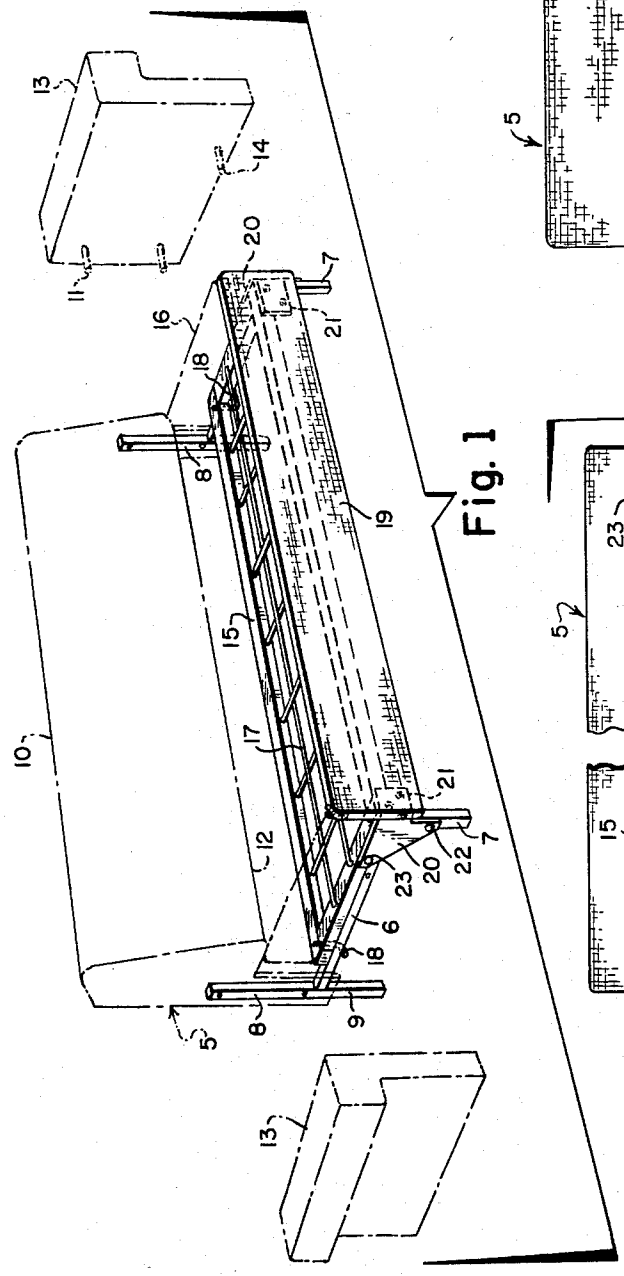


Fig. 1

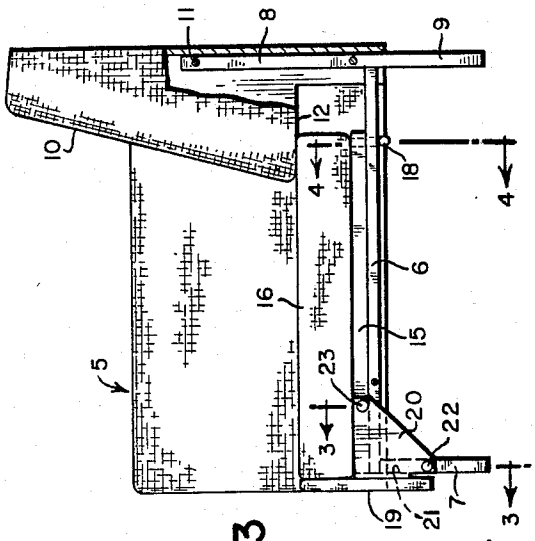


Fig. 2

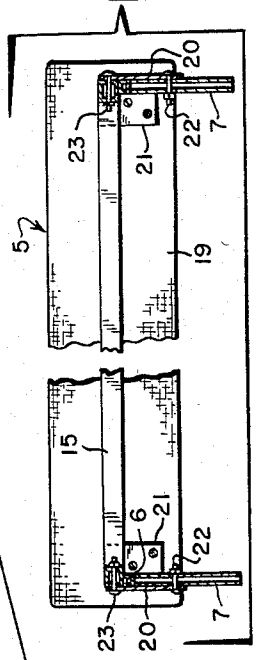


Fig. 3

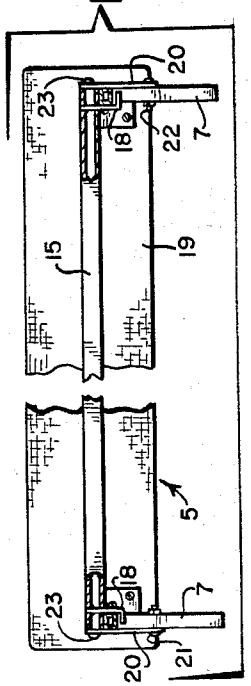


Fig. 4

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Nov. 8, 1966 J. C. CERCHI 3,283,341

BED-FORMING SEATING DEVICE

Filed July 27, 1965 2 Sheets-Sheet 2

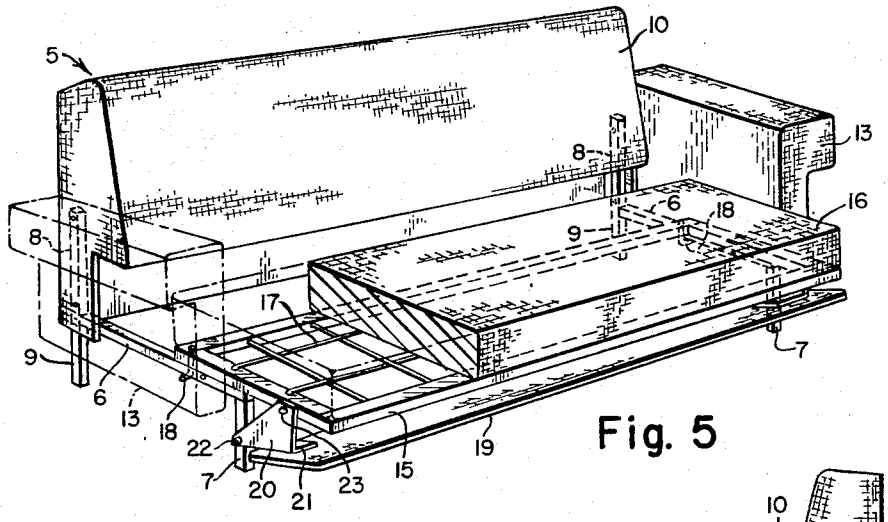


Fig. 5

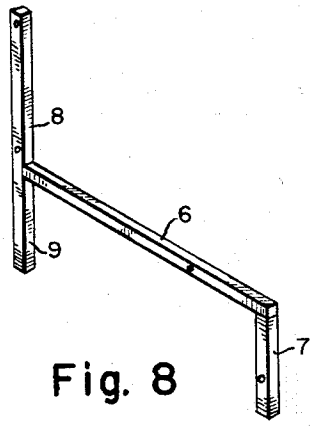


Fig. 8

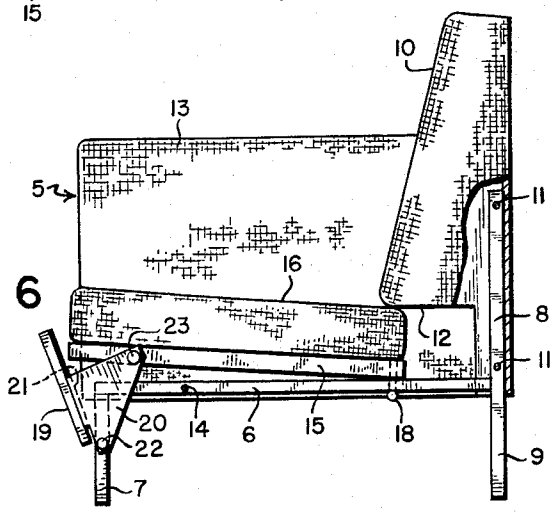


Fig. 6

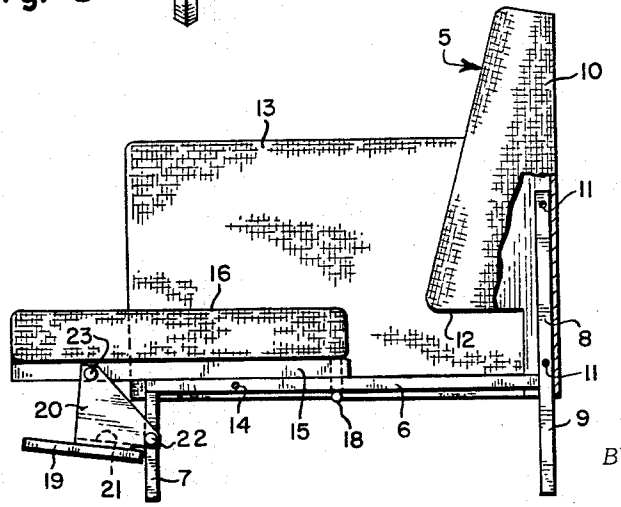


Fig. 7

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BED-FORMING SEATING DEVICE

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3 Claims. (Cl. 5—17)

This invention relates to a bed forming seating device basically, in the form of a couch although the vitalizing features of the device may be adapted to an extensible chair.

The invention contemplates a seating device having a back rest, upholstered arm rests, frame members at each end of the seating device whereby to slidably support a bed frame having a mattress and means connected through the mattress frame and a front leg of the end frames whereby to shift the bed frame outwardly to form a full length bed.

An object of the invention resides in a slidable bed frame carrying a mattress and with the bed frame in the closed position of the device partially underlying an overhang of the back rest so that the seating device may be of such width as to comfortably seat a person upon the mattress in one position and when the mattress frame and the mattress are shifted outwardly, moving the bed frame and the mattress from beneath the overhang of the back rest so that the full dimensions of the mattress will be exposed for sleeping purposes.

Novel features of construction and operation of the device will be more clearly apparent during the course of the following description, reference being had to the accompanying drawings wherein has been illustrated a preferred form of the device and wherein like characters of reference are employed to denote like parts throughout the several figures.

In the drawings:

FIGURE 1 is an exploded perspective view of a combined seating device and bed forming device constructed in accordance with the invention,

FIGURE 2 is an end view of the device, with an adjacent arm rest being removed,

FIGURE 3 is a longitudinal sectional view taken substantially on line 3—3 of FIGURE 2,

FIGURE 4 is a longitudinal sectional view, taken substantially on line 4—4 of FIGURE 2,

FIGURE 5 is a perspective view of the device in the opened or bed forming position,

FIGURE 6 is a view similar to FIGURE 2 and illustrating the movement of a bed frame and mattress toward the bed forming position, parts omitted,

FIGURE 7 is a view similar to FIGURE 6 but illustrating the bed frame and associated mattress fully moved to the bed forming position, and

FIGURE 8 is a perspective view of a frame member embodied in the invention.

Referring specifically to the drawings, there has been illustrated a couch, indicated as a whole by the numeral **5**. The couch embodies end frame members, including a horizontal rail **6**, a forward leg **7** and an elongated vertical frame member **8**, that also constitutes a rear leg **9**. The frame members are identical in construction and are preferably formed of angle iron.

Fixed to the extensions **8**, is a back rest **10**. The back rest is fixed to the extensions **8** by bolts **11** and the front of the back rest is extended forwardly to form an overhang **12**, for a purpose to be presently described. Also fixed to the frame members, including the extensions **8** and the rail **6**, are arm rests **13**. The arm rests are bolted to the frame members by the bolts **11** and **14**, passing through apertures formed in the frame members and whereby the back rest and the arm rests are securely anchored to the frame members. The back rests and

the arm rests are suitably upholstered in the conventional manner.

Slidable upon the frame members **6**, is a rectangular mattress supporting frame **15**, carrying a conventional mattress **16**. The mattress frame **15** is provided with conventional springs **17**, fixed to the frame **15** at its opposite ends and along its sides. The frame **15** is held against displacement from the rail **6** by a hook **18** at each end, that is fixed to the end rails of the frame **15** and extend downwardly to hook under the rails **6**, permitting the frame **15** and its mattress to be shifted outwardly to a bed forming position, such as that illustrated in FIGURES 5 and 7. As clearly shown in FIGURE 2, when the frame **15** and the mattress **16** are shifted inwardly, it extends beneath the overhang of the back rest **10**, exposing an area of the mattress similar to the depth of a conventional seating area.

Means are provided to shift the frame **15** and its supported mattress forwardly along the rails **6**, comprising a forward pivotally supported and upholstered board **19**. The board **19** at its opposite ends is connected to triangular plates **20** by wings **21**, bent at a right angle from the plate **20** and that is screwed or otherwise connected to the rear surface of the board **19**. The plate **20** is pivotally connected to the forward legs **7**, by pivot bolts **22** while the upper portion of the plate **20** is pivotally connected through the outer side of the end frame members of the frame **15**, by pivot bolts **23**. The board **19** may thus be swung forwardly and downwardly upon the pivot bolts **22** and the pivot bolts **23** causing the forward side of the mattress frame **15** to be slightly elevated and then shifted upon the rail **6**, to move the frame **15** and the mattress **16** forwardly, as illustrated in FIGURES 6 and 7. In the rearmost position, the frame **15** is fully supported upon the upper surface of the rails **6** and in the outer position, the frame **15** at its outermost position is supported flat upon the rails **6**.

In the use of the device, the couch is assembled, with the frame members **6**, **7**, **8** and **9** being connected to the back rest **10** and the arm rest **13** are connected to the frame members by the bolts **11** and **14**. The bed frame **15** is then engaged over the rails **6** after the plate **20** has been pivotally connected thereto by pivot bolts **23** and then the frame **15** is engaged by the mattress **16**. The lower pivot bolt **22** is then extended through an aperture in the forward legs **7**, after the plates have been connected to the front board **19** and the device is now ready for use. Normally, the area of the mattress that is exposed when the frame **15** is in the innermost position is not of sufficient width to constitute a bed and, when the device is to be adjusted to form a bed, the operator merely pulls the board **19**, forwardly and downwardly, partially raising the frame **15** and simultaneously moving it forwardly as shown clearly in FIGURE 6 and eventually to the position illustrated in FIGURE 7. Both longitudinal edges of the mattress are free to receive bed clothing and when the device is to be retracted, the operator merely pulls upwardly upon the board **19**, reversing the movement of the frame **15** so that the inner marginal edge of the mattress will be disposed between the overhang **12** of the back rest **10**.

It will be apparent from the foregoing that a very novel bed forming seating device has been provided. The parts are simple, easily assembled, and are most effective to form a convenient bed forming conventional seating device. The structure of the several components of this device functions to permit the packing of the elements for shipping purposes. The component elements of this device may also readily be adapted to a conventional upholstered chair and functions substantially identical to that just described.

It is to be understood that the invention is not limited to the precise construction shown, but that changes are contemplated as readily fall within the spirit of the invention as shall be determined by the scope of the subjoined claims.

I claim:

1. A bed forming seating device comprising a pair of metallic end frames each having a horizontal rail and floor legs at each end of the rail, the floor legs at the rear end of the rail being extended upwardly and jointly carrying an upholstered back rest and upholstered arm rests, the back rest being extended forwardly to form an overhang area, a rectangular bed frame having springs for the support of a mattress, the bed frame having parallel side rails and parallel end rails, the mattress supporting frame being slidably supported upon the rails of the end frames, means for supporting the mattress frame against displacement from the rails of the end frames, an upholstered front board, plates to which the front board is rigidly attached, said plates being pivotally attached to the front legs and pivotally connected to the end rails of the mattress frame, the front board adapted to swing in a vertical plane to both lift and slide the mattress frame forwardly or rearwardly, the mattress frame and its supported mattress when shifted rearwardly having its rear end inserted under the overhang of the back rest and, when shifted forwardly, to expose the full area of the mattress as a sleeping surface and free from contact with the back rest, the rear legs of the end frames being extended upwardly to engage within the back rest and bolts extending through arm rests and the back rest for fixedly supporting the back rest of the arm rests against movement.

2. The structure according to claim 1 wherein the front board is fixedly connected to triangular plates that are pivotally connected to the front legs by pivot bolts and also pivotally connected to the end rails of the mattress supporting frame by pivot bolts, the triangular plates being provided with a right angle lip portion that are fixedly connected to the rear wall of the boards whereby, when the board is swung downwardly, partially lifts the mattress supporting frame upwardly and moves the frame forwardly upon the rails of the end frames and to move the mattress from beneath the overhang of the back rest and to extend the mattress forwardly away from the back rest to constitute a full length bed.

3. A bed-forming and seating device comprising, a pair of end frames each having a horizontal rail extending between and connecting front and rear legs, a mattress-supporting frame slidable upon the rails to and from a bed-forming position, plates pivotally connected to a front leg of each frame and also to a transverse rail of the mattress-supporting frame whereby the mattress-supporting frame can be shifted outwardly to expose a mattress on said frame for the full area of the mattress, said plates being fixedly attached to a front board which extends between them, the spacing between the pivots for each plate being such that upon the retracting movement of the mattress-supporting frame the forward part of said frame is first lifted and then lowered, a back rest and arm rests fixed to the end frames, the back rest having its lower end elevated above the mattress-supporting frame so that the rear portion of the mattress will extend below the lower end of the back rest when the mattress is in seating position, and the front board being of a size to extend in front of and cover the forward edge of the mattress when the mattress is in seating position.

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