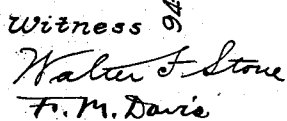


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4 SHEETS—SHEET 1.

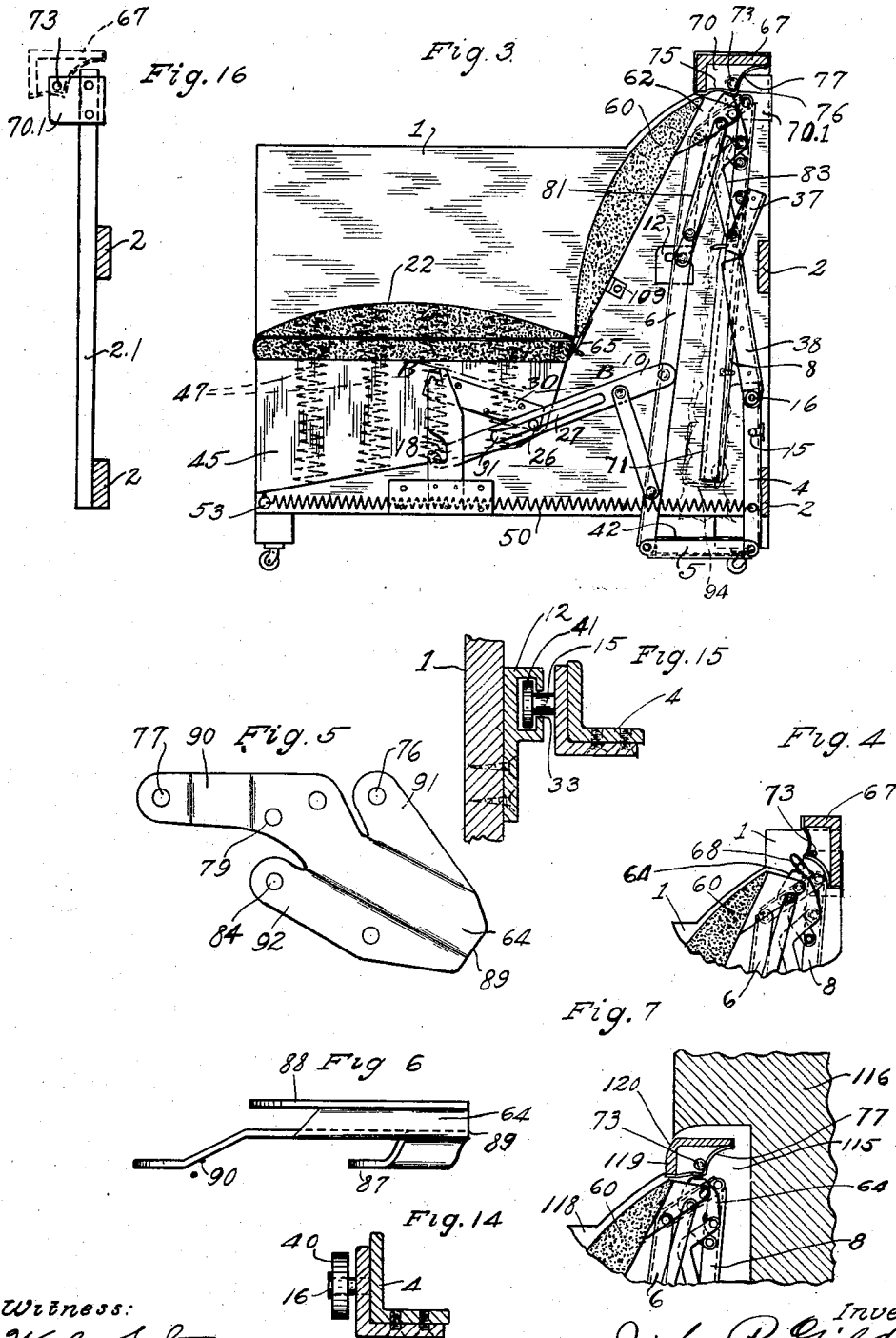


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J. R. GILDA.
 CONVERTIBLE FURNITURE.
 APPLICATION FILED NOV. 8, 1915.

1,274,532.

Patented Aug. 6, 1918.
 4 SHEETS—SHEET 2.



Witness:
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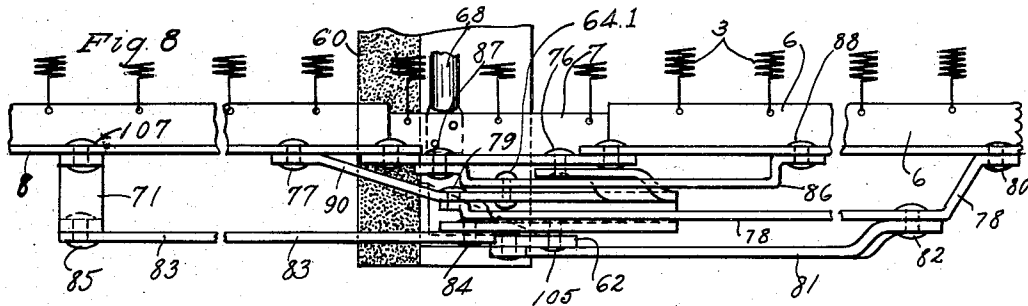
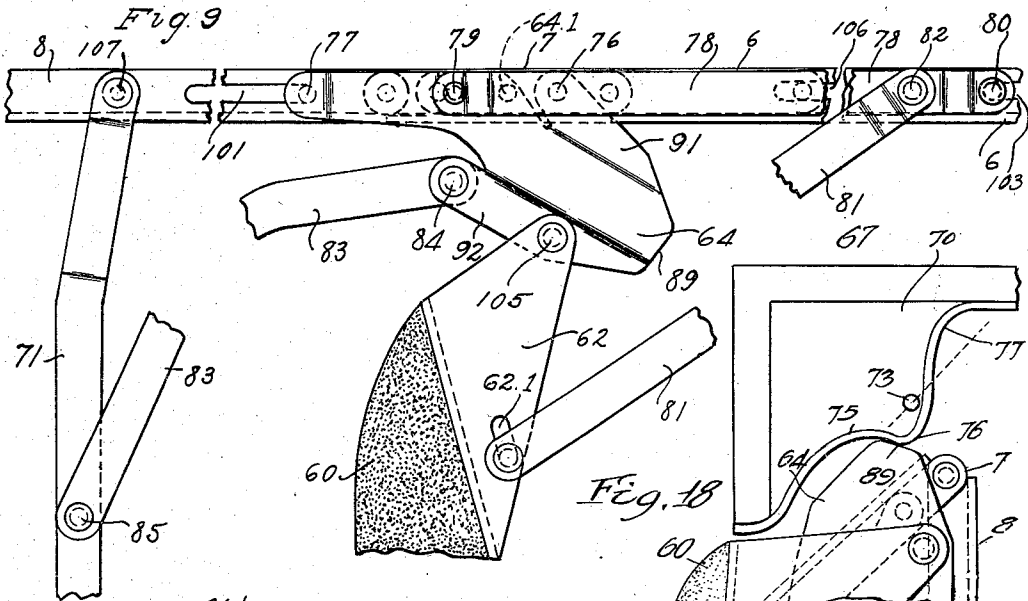
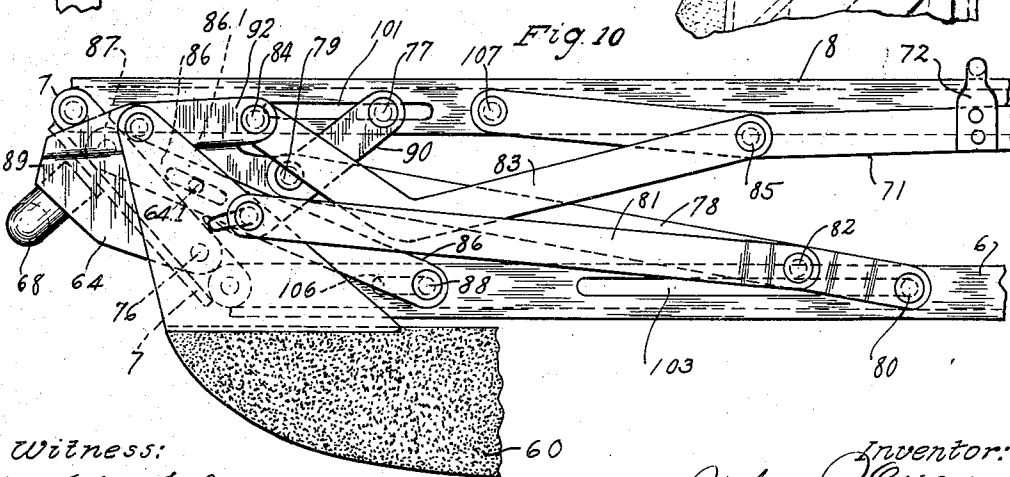
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4 SHEETS—SHEET 3.



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 4 SHEETS—SHEET 4.

Fig. 11

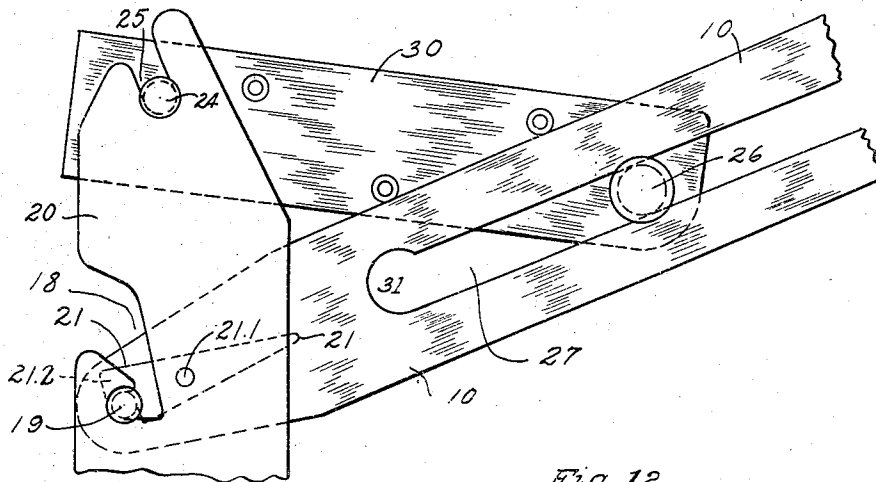


Fig. 12

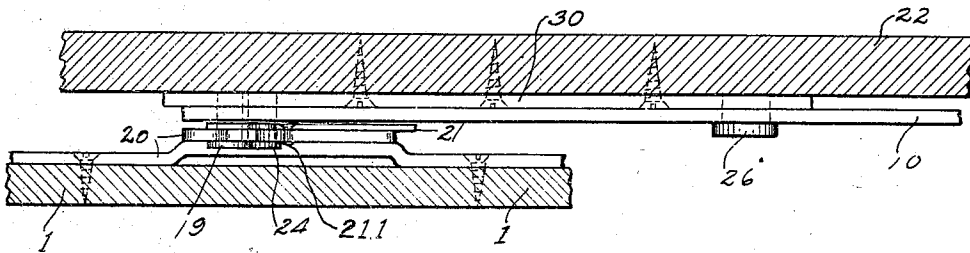
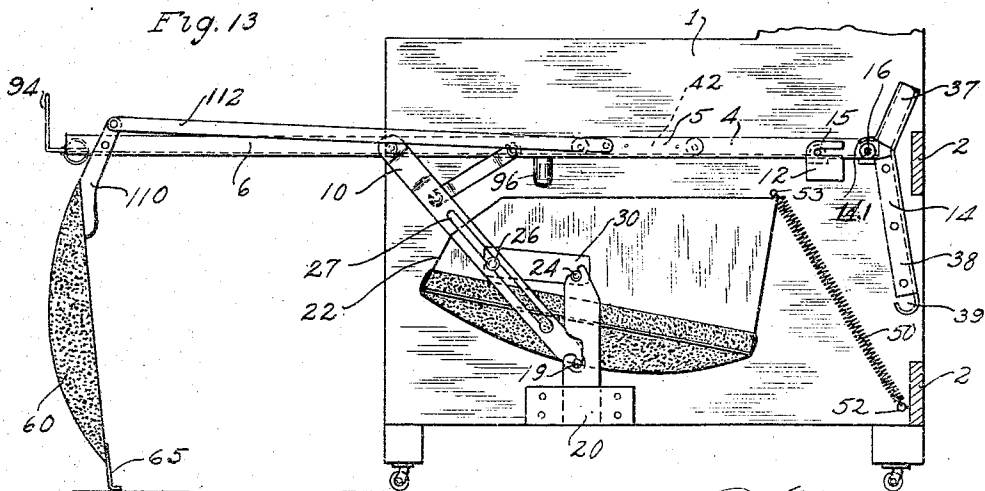


Fig. 13



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UNITED STATES PATENT OFFICE.

JOHN RUDOLPH GILDA, OF CHICAGO, ILLINOIS, ASSIGNOR TO PULLMAN COUCH COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

CONVERTIBLE FURNITURE.

1,274,532.

Specification of Letters Patent.

Patented Aug. 6, 1918.

Application filed November 8, 1915. Serial No. 60,274.

To all whom it may concern:

Be it known that I, JOHN RUDOLPH GILDA, a citizen of the United States of America, and a resident of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Convertible Furniture, of which the following is a specification.

This invention relates mainly to that type of convertible furniture in which a foldable sectional bed bottom is disposed in a seating device behind the back and seat members and is pulled forward in transforming the device into a bed.

Heretofore one of the main difficulties in the construction of convertible devices having foldable bed bottoms, has been to provide means sufficiently reliable and efficient for automatically locking and releasing the foot section in folding and unfolding the bed bottom respectively, so as to hold said foot section and the corresponding part of the bedding in place while the inner sections are being operated. A feature which has proved difficult to accomplish satisfactorily in convertible seating devices characterized by simplicity of operation, is the disposition of bed bottom, seat and back members in a frame having a low and shallow back such as does not distinguish noticeably from non-convertible furniture when the device is in its normal condition.

The main objects of this invention are to provide an improved form of convertible bed device which is changeable from one condition to another by only one motion for a three section embodiment, and only two motions for a five section embodiment; to provide improved automatic leg control and section locking means for the foot section of a foldable bed bottom; to provide improved guide and joint-breaking means for the innermost sections; to provide improved means in a convertible seating device for supporting and swinging the bed bottom easily to and from its folded position behind the back and seat, with the bedding in made-up form; to provide for supporting a medial part of the bed bottom by means of the back member when the device is unfolded; to provide means coacting definitely with the bed bottom in unfolding and folding for swinging the back to and from its bed position; to provide improved knock-down mounting means adapted for readily

assembling the bed and seating members on the frame of the device, and for dismounting the same for shipment or storage; to provide such a seating device in which the bed bottom and back are combined so that they may be handled in a unitary manner and folded compactly when dismounted from the frame; to provide improved means for automatically securing the device rigidly in its seating position; to provide improved means for swinging the seat in such manner as to be disposed upside down beneath the bed, and give clearance for the bed spring when the device is unfolded; to provide an improved arrangement of lifting springs for said seat to assist manual control initially in folding and unfolding the device; to provide a device which is so balanced mechanically as to be easily operatable with one hand; to provide improved bed device mechanism adapted for either sofa, chair, davenport or table form of embodiment, and which may be used in a bed device arranged for mounting in a wall aperture so as to constitute a combination wall bed and seating device; and to provide a device of the foregoing character which is compact, and in substantially all respects when folded presents the appearance of a plain non-convertible article of furniture.

Illustrative embodiments of this invention are shown in the accompanying drawings in which—

Figure 1 is a fragmentary plan showing one side of a sofa bed unfolded, the back part of the sofa frame being in section on the line A—A of Fig. 2.

Fig. 2 is a side elevation of the device shown in Fig. 1 with the near end of the sofa frame removed.

Fig. 3 is similar to Fig. 2, except that the device is in its folded or sofa position.

Fig. 4 is a fragmentary side view, similar to the upper right corner of Fig. 3, except that the locking rail is turned back so as to release the bed bottom.

Fig. 5 is a side view of a mounting bracket carried by the two outer sections.

Fig. 6 is an upward view of the bracket as shown in Fig. 5.

Fig. 7 is a fragmentary view similar to Fig. 4 in modified form illustrating a wall bed embodiment.

Fig. 8 is a fragmentary enlargement of that part of Fig. 1 which relates to the outer

connecting section and locking means associated therewith.

Fig. 9 is a side view of the mechanism shown in Fig. 8.

5 Fig. 10 is a side view of the mechanism shown in Figs. 8 and 9 with the foot section folded over the middle section and locked in that position.

Fig. 11 is an enlarged side view of the co-acting parts of the mounting means for the seat and middle bed section.

Fig. 12 is an enlarged fragmentary section on the line B—B of Fig. 3 and includes a top view of the mechanism shown in 15 Fig. 11.

Fig. 13 is similar to Fig. 2 except that a three section or davenport style of embodiment is shown and the main frame is fragmentary at the upper right corner.

20 Fig. 14 is a fragmentary sectional view showing how the head section guide rollers are mounted.

Fig. 15 is a fragmentary sectional view showing how the head section guides and 25 headed shoulders coact.

Fig. 16 is a vertical section through the middle of a modified connecting means for the frame ends and adapted to carry the top rail.

30 Fig. 17 is a modified form of leg mechanism.

Fig. 18 is an enlarged fragmentary view of the head rail lock.

In the construction shown in Figs. 1 to 3 35 a sofa bed is represented in which the folding bed bottom is extensible lengthwise of the bed across the frame of the sofa in a forward direction, and in which the sofa frame is of a knock-down character, comprising 40 ends 1 and detachable connecting means 2.

The bed bottom comprises a jointed border frame having a resilient mattress 3 secured thereto as illustrated in Fig. 1. Said bed bottom is made in five sections, namely, a 45 head section 4, an inner connecting section 5, a middle section 6, an outer connecting section 7, and a foot section 8, adapted to fold together with the foot section between the head and middle sections, and with the bedding 9 in made-up form, as shown in Fig. 3. 50

Supporting means for the bed bottom include brackets or arms 10 attached to the middle section 6 for bearing on the frame ends 1, and guides 12 and 14 on the back 55 part of said frame ends for coaction with the head section 4 which has projections 15 and 16 for said guides respectively. All of said supporting means are formed and arranged for readily assembling and dismounting the bed bottom with respect to the frame. 60 Each of said frame ends is provided with sockets 18 to receive the pivots 19 on the arms 10, said sockets being formed in plates 20 mounted rigidly on said ends 1. In order 65 to secure each pivot 19 in its socket a lock

21 is provided, comprising a latch pivoted at 21.1 to the plate 20 adjacent to the socket 18. Said socket is hook-shaped and the entrance is blocked by turning said latch to its locking position. Gravity tends to hold the latch 70 closed as will be seen by reference to Fig. 11. Said latch has a shoulder 21.2 disposed normally over the pivot 19 and prevents the latch from swinging past said pivot.

The overturning seat 22 is provided on 75 each end with a pair of shoulders or pivots one of which, 24, is located centrally and coacts with a socket 25 in the frame plate 20. The other pivot, 26, is near the rear edge of the seat and coacts with a guide slot 27 dis- 80 posed longitudinally of said arm 10. Said pivots 24 and 26 are carried by mounting plates 30 attached to the seat member. The frame plates 20 are each formed with the bearing 25 above and almost directly over 85 the bearing 18, and the upright part containing said bearings is spaced from the frame end 1 so as to give clearance for the headed ends of the pivots 19 and 24. The arm pivot 19 is journaled low on the frame so that the 90 arm 10 may be long enough to give to the bed section carried thereby a forward throw sufficient to properly dispose the bed bottom when unfolded. The seat pivot 24 is placed nearly opposite the center of gravity of the 95 seat so as to facilitate turning the latter, and at a sufficient elevation to permit clearance of the floor in rotating the seat. The pivot 26 is headed for retention in the arm slot 27, said slot being enlarged at 31 for in- 100 gress and egress of the pivot head in assembling and dismantling the device.

The inner guide and supporting means 12 and 14 above referred to cooperate to direct the movements of the head section and ad- 105 jacent connecting section. The forward guide 12 is provided with a horizontal slot 33 open at its rear end to admit the corresponding shoulder 15 disposed medially on the head section. The forward end is closed 110 to serve as a stop. The other guide 16 is disposed uprightly back of the guide 12 and opens forwardly at 35 intermediate of its ends, opposite the guide slot 33, to receive the shoulder 16 on the inner end of the head 115 section. The double flanged upper part 37 and the rear flanged lower part 38 of said guide 16 are inclined backward somewhat toward their ends. This insures upward rid- 120 ing of the shoulder 16 initially in folding the bed, and permits the head section to swing well back in the lower part of the frame when the bed is folded and the shoulder 16 rides down on the guide arm 38. A shoulder or stop 39 at the lower end of the guide part 125 38 arrests the downward movement of shoulder 16 and normally carries the weight of the head section. The rear shoulder 16 is preferably equipped with a bearing roller 40 to facilitate coaction with the guide 14, and 130

the inner shoulder 15 is headed at 41 for coaction with the correspondingly flanged guide 12 to prevent lateral displacement of the head section when in use.

5 In order to insure sufficient upward travel of the head section on the guide arm 37 in folding the bed bottom and prevent a sudden dropping of the inner sections when the shoulder 15 leaves the guide 12, and in order
10 that the rising movement of the head section shall not lag behind the initial movement of section 6 in unfolding the bed and said head section shall not fail to ride upward
15 into slot 33 as the device unfolds, a shoulder or stop plate 42 is fixed to the side rail of the connecting section 5 so as to limit the mutual folding of the two innermost sections to about ninety degrees. The lug 14.1
20 on guide 14 helps hold section 4 horizontal.

The seat 22 comprises a deep hollow frame 45 equipped with large upholstering springs 47 for the cushion part, whereby a deeply yielding cushion is provided for, this being
25 one of the most desirable features of an upholstered seat, but usually difficult to attain in convertible furniture. Said seat is overturnable by virtue of its support on its axial pivots 24, coacting with the frame sockets
30 25, and is swung forward by the bed bracket 10 in unfolding the device. A lifting spring 50 facilitates conversion of the device from one form to another, said spring having one end 52 secured to the lower back part of the
35 sofa frame, and its other end 53 being secured to the lower front part of the seat as the latter is disposed in its normal position. In operation the point of connection (53) to the seat swings through a neutral position
40 at which the spring is most relaxed and is in alinement with the axis of pivots 24, so that the spring is stretched taut in both normal and overturned positions of the seat and is therefore effective to assist initial movement both in folding and unfolding the device.
45

The back member 60 comprises a frame having a yielding upholstered part as will be understood, and is equipped with arms 62
50 adjacent to its upper edge for securing the back to the bed bottom. Each of said arms 62 is turnably connected to the outer part of the bed bottom by means of a bracket or lock member 64 hereinafter described, to
55 which said arm is pivoted. The lower part of the back is provided with downwardly projecting bearings or feet 65 for resting on the floor when the device is unfolded, said feet being disposed back of the seat when in
60 sofa position. The back is connected for definite mechanical operation or folding with respect to the bed bottom as hereinafter described.

A movable locking rail or top closure
65 panel 67 is provided for the sofa frame, said

rail being turnably mounted on the sofa frame in such manner as to swing upward and backward, and thereby permit the operator to reach behind the back and grasp the spacing bar 68 or other convenient part for
70 pulling forward to unfold the device. Mounting plates 70 and 70.1 are attached to the adjacent rail and frame ends, one of said plates being pivoted to the other at 73, as shown in Fig. 2. Said top rail is provided
75 with locking means for securing the bed bottom and back in their retracted or sofa position, said means preferably being in the form of a cam member 75 formed with an outwardly projecting part 76 arranged to
80 coact with the swinging back and bed bottom member to resist movement thereof when said top rail is swung down to its normal position, and said cam being provided with a depression as at 77 on Fig. 3 back
85 of the projecting part, so that when the top rail is swung upward the back and bed members are free to swing forward. The cam is formed of a metal strap attached to the top and front members of said rail.
90

Legs 71 are turnably connected to the foot section side rails respectively, preferably somewhat back from the center, so as to swing outwardly in folding. Said legs are
95 connected by a cross bar or handle member 72 which the operator may grasp and operate with one hand in unfolding the device.

The outer part of the bed bottom is provided on each side with a plurality of coacting automatic means for projecting and re-
100 tracting the swinging back member 60 for controlling the foot section legs 71 and for locking the outer section 8 in folded relation on the middle section 6 in such manner as to hold the bedding in place while the outer
105 sections are being swung back to their sofa position and the inner sections are being operated.

Said means or mechanism on each side includes a broad link or bracket 64, above
110 referred to, which is turnably connected at 76 to the outer connecting section 7, and connected turnably and slidably at 77 to the foot section, a link 78 having one end turnably connected at 79 to said bracket and
115 having its other end connected at 80 to the middle section 6 for turning and sliding longitudinally thereof, another link 81 turnably connected at 82 to said link 78 and to said back member 60 for controlling the latter,
120 a link 83 having one end pivoted at 84 to said bracket and having its opposite end connected at 85 to a medial part of said leg, and a link 86 having one end pivoted at 87 to section 7 adjacent to the outer joint
125 and having its opposite end turnably and slidably connected at 88 to section 6. Said bracket 84 comprises a medial body part having a shoulder 89 for coaction with the locking rail 67, a medial projection 90 for
130

- the sliding pivot of the foot section, a lateral arm 91 for the corresponding pivot on the connecting section, and an oppositely disposed arm 92 for the pivot on the leg link 83. The arms 90 and 91 are offset backwardly and the arms 92 forwardly from the main body part to give operating clearance for the coacting parts. Pivot 64.1 on bracket 64 coacts with slot 86.1 on link 86.
- 10 A bedding fastener 94 is turnably connected to the outer section 8, being secured to the foot rail 95, preferably by friction clamp means adapted to hold the fastener in either open or closed position.
- 15 The bowed spacing bars 68 and 96 hold the side rails apart against the tension of the spring mattress 3 when the device is knocked down. They prevent sticking or binding of the bearings and guides when the device is operated.

- The operation for assembling the device is as follows: The connecting bars 2 are secured to the frame ends 1, the back rail 67 is placed in position, the bed bottom with the legs and back member attached thereto, and the foot section being folded on the middle section, is then mounted on the frame by first securing the arm pivots 19 in the frame sockets 18 and then sliding the head section shoulders 15 and 16 into coöperative relation with the guides 12 and 14, the bearings 15 and 16 entering downwardly at 98 and 99 respectively, then with the bed bottom in its folded position the seat is mounted by introducing the headed pivots 26 into the arm slots 27 at the point 31 and then sliding the seat back so as to permit lowering the pivots 24 into the frame sockets 25, after which the lifting spring 50 is attached. When it is desired to take the device apart for shipment or storage, the reverse operation may be followed. The parts may then be disposed compactly in a small space with the bed bottom legs and back member folded as a unit.

- The unfolding operation for converting the structure from a seating device to a bed is as follows: The operator first unlocks the device by rotating the back rail rearwardly, thereby exposing the spacing bar 68 which is adapted to serve as a handle. The bed bottom is then partly unfolded by pulling forward on said bar, which operation may be performed by pulling at the middle of the bar with one hand. The operator then grasps the rod 72 connecting the legs, and by pulling forward thereon swings the foot section to its bed position, unfolds the legs and swings the back down to its supporting position.

- The operation for folding the device is as follows: The operator grasps the foot rail 95, using but one hand if desired, and swings the outer section over onto the middle section, thereby causing the back 60 and

the legs 71 to fold against the bed bottom and interlock automatically with the associated parts. The operator then grasps the spacing bar 68 and swings the foot and middle sections, together with the head section, to their upright position behind the seat and back members, thus completing the folding operation. The device is then locked in its sofa form by turning forward the back rail 67 to its normal position. As the upholstered back and seat members are actuated by the bed bottom movements they take their bed and sofa positions automatically without any attention.

The detailed operation of the automatic lock and control mechanism associated with the outer connecting section is as follows: In swinging the foot section 8 back over the middle section 6, the initial movement of the foot section tends to turn the bracket 64 on the connecting section pivot 76, the pivot 77 sliding outward in the foot section slot 101. This movement throws the bracket arm 92 and pivot 84 outward, thus causing the link 83 to swing the legs 71 outward and upward against the foot section. Said movement also swings the pivot 79 upward and rearward, thus causing the link 78 to slide backward in the slot 103 of the middle section. The combined outward and upward swing of the back carrying pivot 105 and the rearward movement of the pivot 82 on link 78 causes the link 81 to swing the back 60 rearwardly and upwardly against the middle section 6. The relative turning of section 7 with respect to section 6 is limited by the length of the slot 106 in section 6, so that the link 86 arrests the folding movement when section 7 is turned through a suitable angle, preferably about 45 degrees. As the foot section swings downward over the middle section, the leg 71 swings somewhat past the center line of the foot section side rails so that the pivot 85 swings downward past alinement with the leg pivot 107 and the bracket pivot 84, the adjustment being such that the link 83 is thrown into tension as it passes the point of alinement and therefore snaps downward into a stable position and secures the parts in their interlocked relation. When the foot section swings into place over the middle section, gravity usually suffices to carry the legs down past the critical or locking point, especially when the foot section is thrown over quickly. Whenever extra thickness of bedding interferes materially the operator may force the foot section and legs into place by pressing down on the bar 72.

The limited folding of section 7 with respect to section 6 causes the former to assume an inclined normal position, as shown in Fig. 4, with the spacing bar or handle 68 projecting somewhat forward in a position convenient for use. The shoulders 89 on the

brackets 64 are also held thereby in a suitable position for coaction with the top rail locking shoulders.

When the section 6 is swung forward on its arms 10 the folding stop 42 on section 5 causes the latter to ride upward in a substantially horizontal position. The roller 16 rides upon the rear flanges first of guide arm 38 and then of arm 37. When section 6 reaches a certain intermediate inclined position the connecting section 5 and the lower edge of the head section 4 swing forward, carrying the bearing 15 into the guide 12, and the bearing 16 descends to its bed position. In folding the device the head section first turns somewhat on its bearing 15 as it slides backward. Then the roller 16 strikes the rear flange of the inclined arm 37 on which it rides. By the time support 15 emerges from guide 12 the stop 42 becomes effective and the head section rides down the guide 14 to its normal position, as shown in Fig. 3. As the bed bottom swings back to rest the back 60 seats against the stops 109 on the ends 1.

In the construction shown in Fig. 13 a three section embodiment of seating device or bed davenport is shown adapted for providing a bed disposed lengthwise of the seat frame. In this embodiment the structural and operating features shown are substantially the same as for the sofa bed above described, except that the foot section and outer connecting section are omitted and the bracket 110 for the back member 60 is pivoted directly to the main section 6 and has an oppositely projecting part to which is pivoted an operating link 112, the inner end of which is pivoted to the connecting section 5 so as to swing the back automatically to and from its bed position as the bed bottom is unfolded and folded respectively.

In the construction shown in Fig. 7 the seating device is similar to the sofa bed above described, except that the device is mounted in an aperture 115 in the room wall 116 for use as a wall bed, the end members 118 and locking rail 119 being modified accordingly. The upper front corner of the locking rail is formed so as to clear the correspondingly formed upper part of the wall aperture, the opposing parts being rounded as at 120.

It will be understood that some of the features of the locking and leg control mechanism associated with the outer connecting section (see Fig. 8) may be used in any device having a bed bottom wherein locking of the sections in folded relation is desirable, as for instance in table beds, as well as in the seating devices shown in the drawings.

Although several illustrative embodiments of this invention are herein shown and described, it is to be understood that

the invention is not limited thereto and that some of the details of the constructions shown may be altered or omitted without departing from the spirit of this invention as defined by the following claims.

I claim:—

1. A convertible seating device comprising a sectional bed bottom foldable uprightly in the back part thereof, a pair of end members between which said bed bottom is operably mounted, a back carried by said bed bottom, pivotal means in the lower medial part of said device whereon said bed bottom is mounted, and a top rail turnably mounted on said end members above said bed bottom and back on an axis under the middle part of the rail, said rail having cam means including a dog-part disposed downwardly from the rail axis, said part being swingable into and somewhat past alinement with the turning axes of said bed bottom and rail, for positively locking the said bed bottom unyieldingly in its retracted position when said rail is turned forward to its normal position and for effecting a release thereof when turned back from said position.

2. A convertible seating device comprising a seat and a pair of end members on which said seat is overturnably mounted, a sectional bed bottom foldable uprightly behind the seat and carried pivotally by said end members on an axis disposed in the lower forward part of said device, means operatively connecting said seat and bed bottom, a back swingably connected adjacent to its upper edge to a part of said bed bottom which is disposed substantially uppermost when the bed bottom is folded and which is swung forward when the bed bottom is unfolded, and a top rail mounted turnably on said end members above said bed bottom and back, said rail having downwardly disposed means for positively locking the device as a whole in seating position when said rail is turned to its normal position, and for effecting a release thereof when turned from said position, said locking means being adapted to serve as a dog arranged to block the upward and forward swinging of the bed bottom.

3. A convertible seating device comprising a seat and a pair of end members on which said seat is overturnably mounted, a sectional bed bottom foldable uprightly as a whole behind the seat and carried by said end members, pivotal means disposed in the lower forward part of said device whereon said bed bottom is turnably mounted, means operatively connecting said seat and bed bottom, a back swingably connected adjacent to its upper edge to a part of said bed bottom which is disposed substantially uppermost when the bed bottom is folded and which is swung forward when the bed bottom is unfolded, and a top rail mounted

turnably on said end members above said bed bottom and back, said rail having stop means formed and arranged to positively and unyieldingly engage and arrest forward movement of the bed bottom when the latter is in its normal retracted position and said rail is turned forward, and to release said bed bottom when said rail is turned back.

4. In a convertible seating device a frame and a forwardly swingable foldable bed bottom member normally disposed uprightly in the back part of said frame, in combination with locking means for securing said member in said position, said means comprising a rail mounted turnably on said ends adjacent to their upper rear corners, said rail having a shoulder extending and facing downward and bearing against said member when the rail is turned to its normal position, and forwardly to release said member when the rail is turned back about ninety degrees, more or less, the bearing point for said rail and bed bottom being back of alignment with the turning axes of the bed bottom and rail.

5. A seating device comprising a support and a bed bottom member mounted turnably on the lower part of said support, in combination with a locking member mounted turnably on the upper rear part of said support, said turnable members abutting one against the other somewhat back of the plane of their pivotal axes and in a plane substantially tangent, at the point or line of contact, to an arc concentric with the lock axis, said locking member being formed to give clearance for said bed bottom member when the lock is turned from its normal position.

6. In a convertible seating device, a foldable sectional bed bottom including a pair of outer main sections spaced apart, a short connecting section therefor, an inner section to which one of said outer main sections is turnably connected, in combination with a bracket pivoted to said connecting section and connected turnably and slidably to the other of said outer main sections, a back member turnably connected to said bracket, a link having one end pivoted to said bracket and having its other end connected to the inner of said outer main sections for sliding longitudinally thereof, another link pivoted to the first mentioned link and to said back member for controlling the latter, a leg turnably connected to a medial part of the outer of said main sections adjacent to the connection of said bracket, a link having one end pivoted to said bracket and having its opposite end connected to a medial part of said leg, and a link having one end pivoted to the outer part of the said short section and having its opposite end connected turnably and slidably to the inwardly adjacent main section.

7. In a convertible furniture device, a foldable sectional bed bottom including a pair of main sections spaced apart, a connecting section therefor, and a fourth section to which one of said main sections is turnably connected, in combination with a bracket mounted turnably on said connecting section and connected turnably and slidably to the other of said main sections, a leg turnably connected to a medial part of said other main section adjacent to the sliding connection of said bracket, and a link having one end pivoted to said bracket and having its opposite end turnably connected to a medial part of said leg.

8. In a convertible furniture device, a foldable sectional bed bottom including a pair of main sections spaced apart, a connecting section therefor, and a fourth section to which one of said main sections is turnably connected, in combination with a bracket mounted turnably on said connecting section and connected turnably and slidably to the other of said main sections, a back member turnably connected to said bracket, a link having one end pivoted to said bracket, and having its other end connected to said one main section for sliding longitudinally thereof, and another link pivoted to the first mentioned link and to said back member for controlling the latter.

9. In a convertible furniture device, a foldable sectional bed bottom including a pair of bed sections spaced apart, and connecting means therefor, in combination with a back member carried on said bed bottom in foldable relation to one of said sections, a leg turnably connected to a medial part of the other of said sections, and controlling means operatively connecting said parts adapted for locking the same all in folding relation and for projecting said back and legs when said sections are unfolded.

10. In a convertible furniture device, a foldable sectional bed bottom including a pair of bed sections spaced apart, connecting means therefor, and a relatively stationary member to which one of said sections is turnably connected, in combination with a back member carried on said bed bottom in foldable relation to said one of said sections, a leg turnably connected to the other of said sections, controlling means cooperatively related to said connecting means adapted for locking said sections, connecting means, back member, and leg in folded relation and for projecting said back and legs when said sections are unfolded.

11. A foldable sectional bed bottom comprising a pair of main sections spaced apart and a connecting section, in combination with a leg turnably connected to one of said main sections and foldable thereagainst away from said connecting section, means to limit the relative folding of said connect-

ing section and the other of said sections, a lock member turnably connected at one end to said connecting section and having a combined turning and sliding connection to the leg bearing section, and another lock member turnably connected at one end to the first mentioned lock member and having a turning connection to said leg.

12. A foldable sectional bed bottom comprising a pair of main sections and a connecting section, one of said main sections being foldable over on the other, in combination with a rigid member attached pivotally to said connecting section and to one of said main sections the pivot for the latter connecting section being slidable lengthwise of the section, a leg turnably connected to said one section adjacent to said connecting section, means to arrest said leg as it swings to its folded position, and locking means comprising a link connecting medial parts of said leg and said rigid member, the pivotal connections for said leg and link being arranged to pass relative alinement as the leg reaches its folded position, said link being in tension as said connections pass through alinement.

13. A convertible furniture device comprising a bed bottom including a pair of main sections, one being the head section and a connecting section, turnably mounted supporting means attached to the other of said main sections, said means being disposed beneath the bed bottom when the latter is unfolded, a bearing for said means, an uprightly disposed guide member positioned back of said bearing and a horizontally disposed guide member positioned between said bearing and the upright guide member, the head section having means for coaction with the vertical guide member, and supporting means for coaction with the horizontal guide member, said means on the head section being demountable from said guide means respectively by movement rearwardly and upwardly subject to suitable manipulation of the head section.

14. A convertible furniture device comprising a support having ends, a bed bottom including a pair of main sections inner and outer respectively and a connecting section mounted between said ends, the outer section having arms turnably connected to the lower part of said support, guide means disposed uprightly on the rear part of said support for guiding the rear edge of the inner section, horizontally disposed guide means positioned in front of the medial part of the upright guide, means disposed laterally on the inner section intermediate of the front and rear edges for coaction with said horizontal means, said bed bottom having stop means to limit the folding of the inner section with respect to the connecting section to about 90 degrees, said horizontal guide

means being open at its rear end and closed at its front end.

15. A supporting frame having ends spaced apart, in combination with a foldable sectional bed bottom and a rotary locking rail both mounted between said ends, one of the bed sections by which other sections are also carried being mounted turnably on said frame for swinging forward away from its normal position beneath said locking rail to its bed position and vice versa, and locking means for holding part of the bed sections in folded relation as they swing back to their normal position and forward therefrom, said locking means including a shoulder formed for locking engagement with said rail when the latter is rotated to its normal position with the bed bottom in its normal retracted position.

16. A convertible seating device including a support and a foldable sectional bed bottom comprising a pair of main sections normally disposed uprightly one behind the other, and a connecting section at their upper edges, the forward of the upright sections having means whereby it is turnably connected to said support for swinging forward and downward to its bed position, and means for limiting the folding movement of said connecting section on said forward section to less than 90 degrees, whereby the connecting section is held in an inclined normal position and the other or rear main section projects upward beyond the forward section.

17. A convertible seating device including a support and a foldable sectional bed bottom comprising a pair of main sections normally disposed uprightly one behind the other, and a connecting section at their upper edges, the forward of the upright sections having means whereby it is turnably connected to said support for swinging forward and downward to its bed position, a bowed spacing bar on the connecting section adapted to serve also as a handle, and means for limiting the folding movement of said connecting section on said forward section to less than 90 degrees, whereby the connecting section is held in an inclined normal position and the handle on the connecting section is disposed somewhat forwardly.

18. In a convertible furniture device, a foldable sectional bed bottom including a pair of bed sections spaced apart, connecting means therefor, and a relatively stationary member to which one of said sections is turnably connected, in combination with a leg turnably connected to the other of said sections, and automatic locking means for securing said pair of sections in folded relation comprising a link pivoted to said connecting means adjacent to the leg bearing section, the opposite end of said link being connected turnably to and slidably lengthwise of the other of said sections, a member

having one end pivoted to said connecting means adjacent to the first mentioned section and its other end being slidable longitudinally of and connected turnably to the leg
5 bearing section, a pivot disposed medially on said means and said link having a longitudinal slot for said pivot, a link coacting at its opposite ends with said member and said leg respectively for holding the locking

means in its locked position, a back turnably 10 connected to said member, and means operatively connected to said member, back and first mentioned section for controlling said back.

Signed at Chicago this 4th day of Nov. 15 1915.

JOHN RUDOLPH GILDA.