

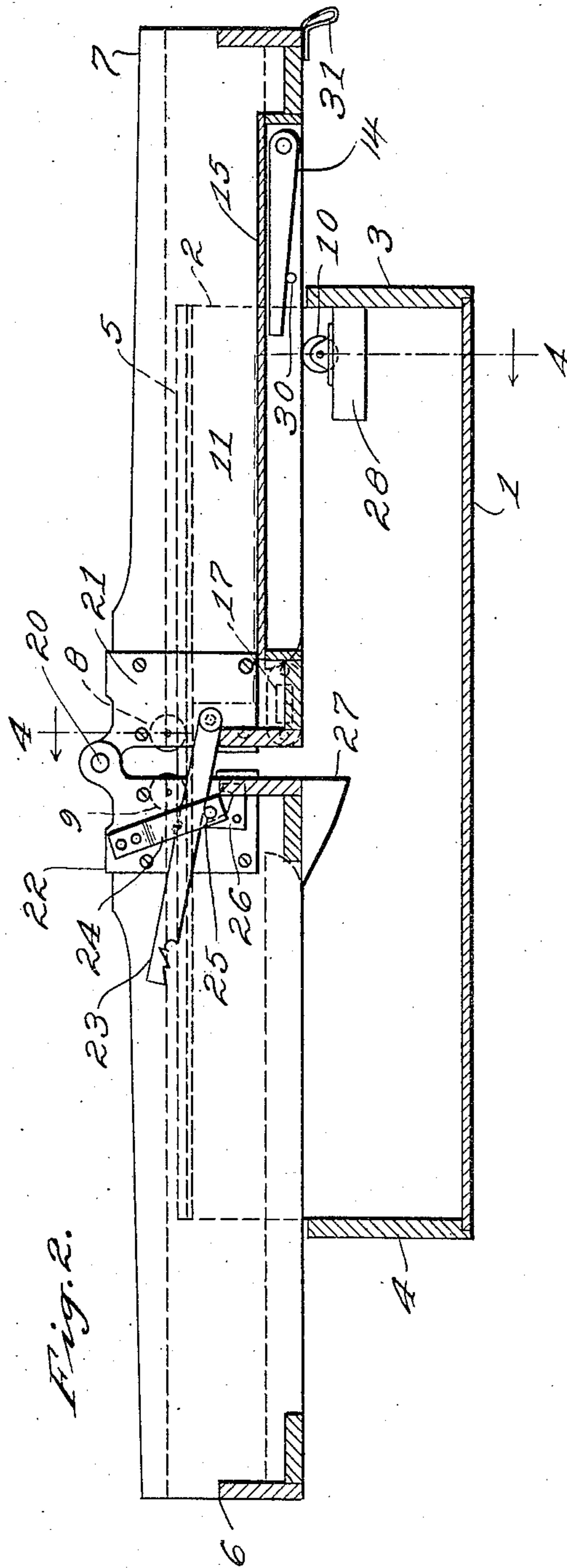
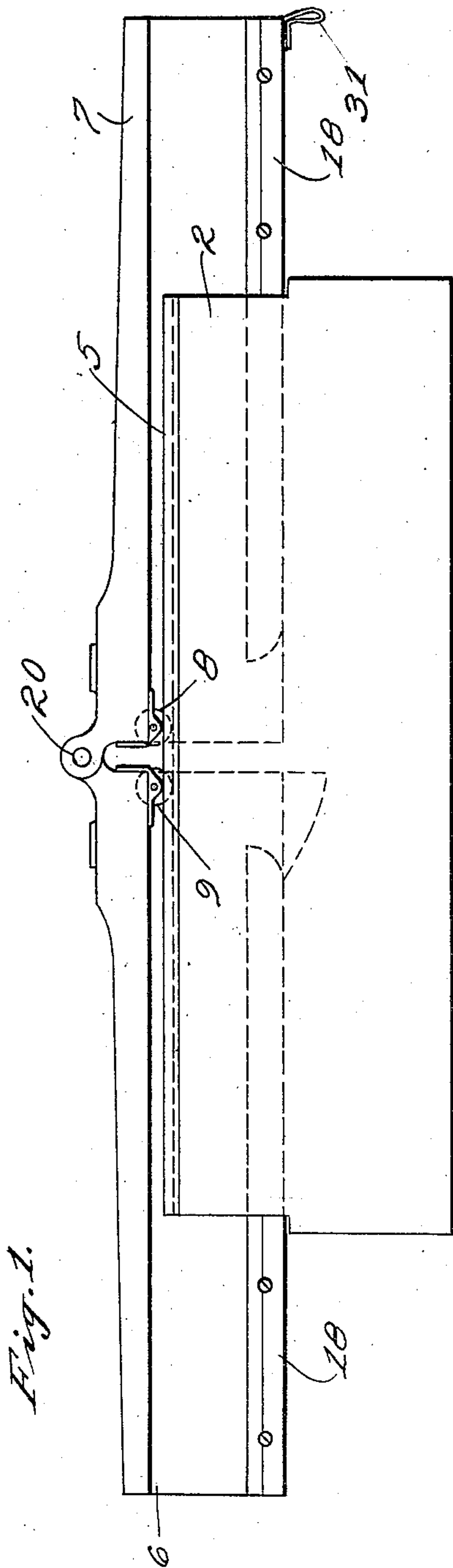
No. 863,365.

PATENTED AUG. 13, 1907.

R. DEIMEL.  
SOFA BED.

APPLICATION FILED JAN. 25, 1907.

3 SHEETS—SHEET 1.



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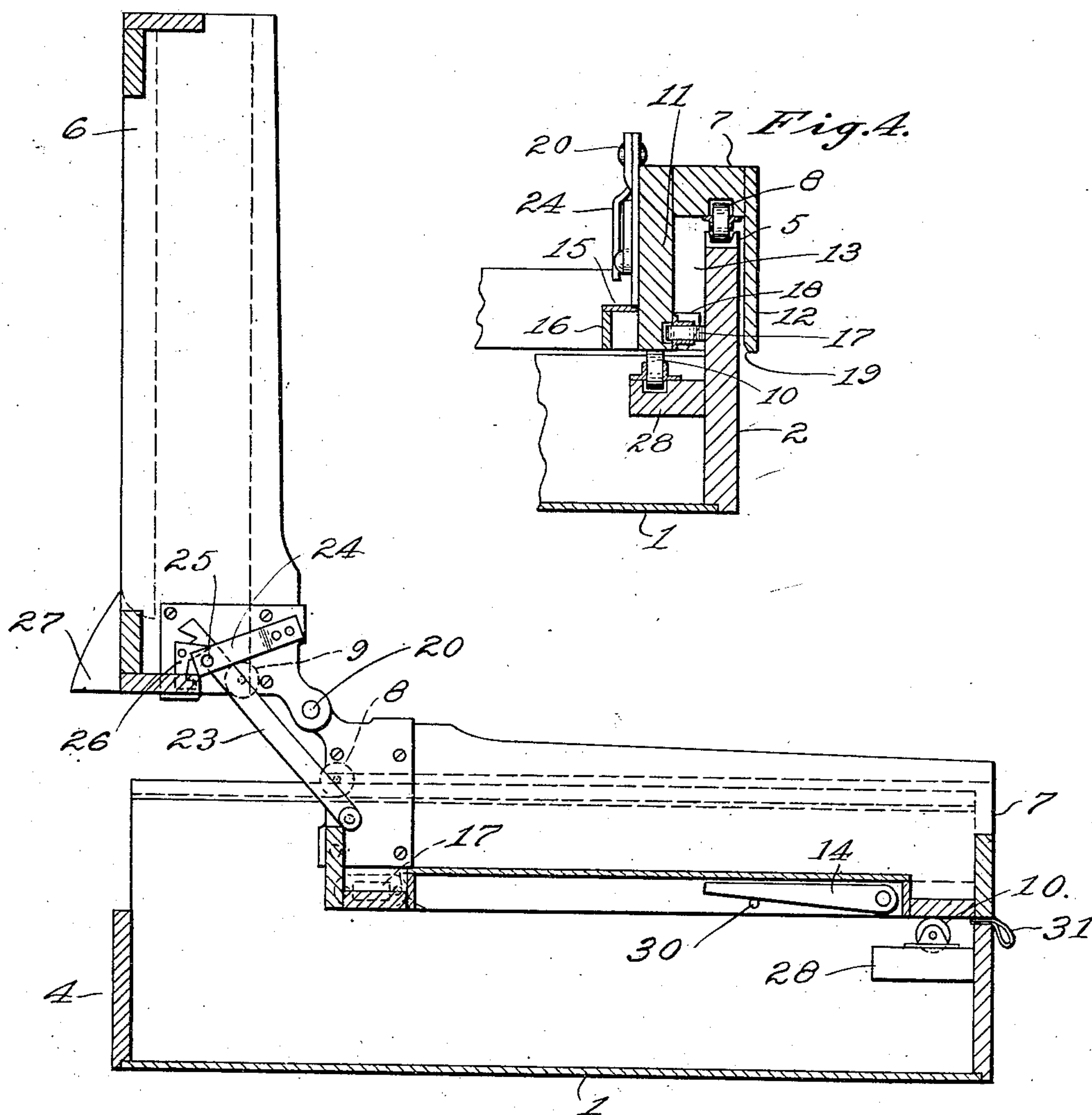
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3 SHEETS—SHEET 2.

Fig. 3.



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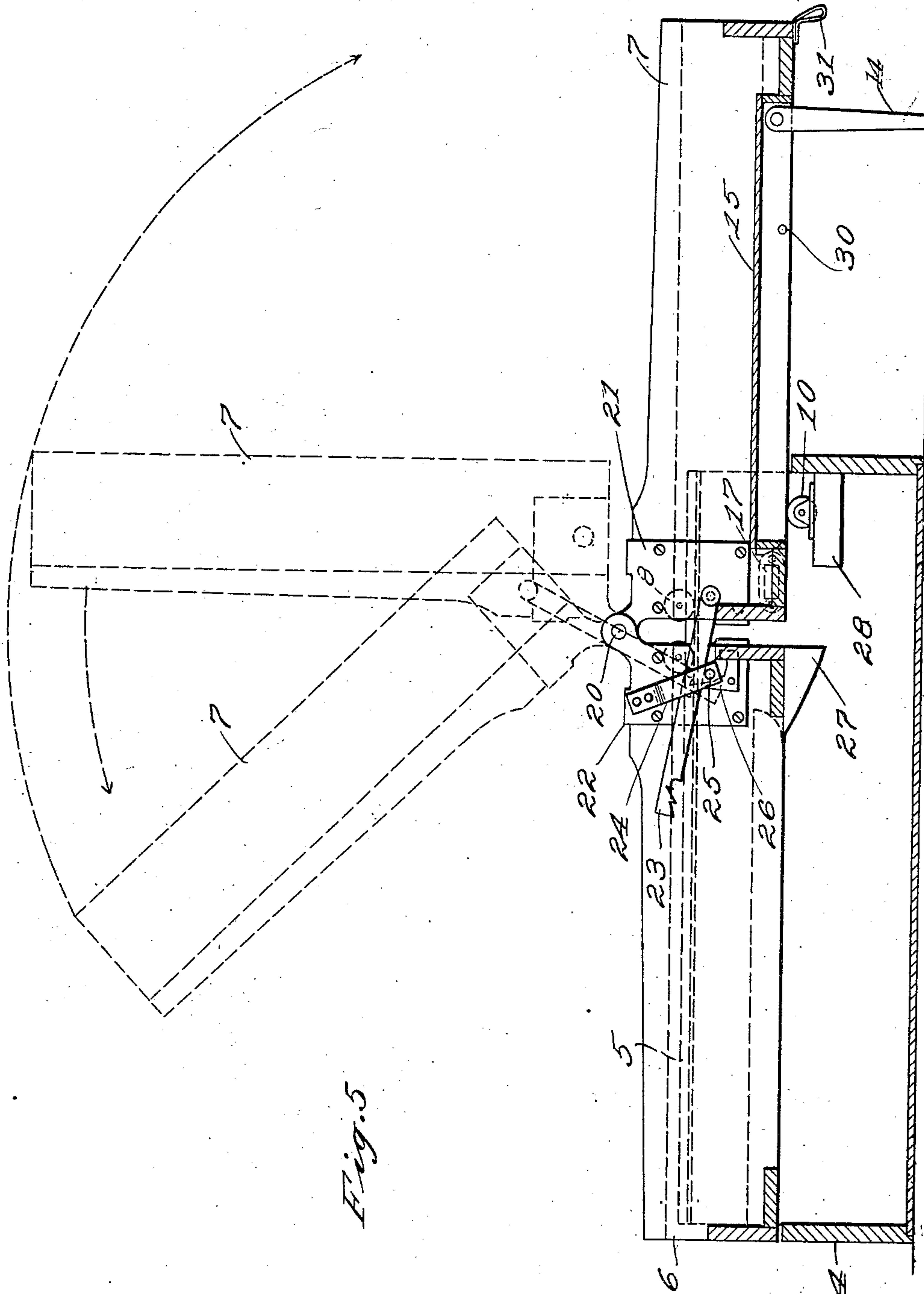
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# UNITED STATES PATENT OFFICE.

RUDOLPH DEIMEL, OF CHICAGO, ILLINOIS.

## SOFA-BED.

No. 863,365.

Specification of Letters Patent.

Patented Aug. 13, 1907.

Application filed January 25, 1907. Serial No. 354,054.

*To all whom it may concern:*

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

The main objects of this invention are to simplify, strengthen, and cheapen the construction of sofa beds of the type in which the back and seat are hinged together and movable to different positions on the supporting base, and to facilitate the movement of the back and seat on the base.

These objects are accomplished by the device shown in the accompanying drawings, in which:

15 Figure 1 is a side elevation of a sofa bed constructed according to this invention and showing the back and seat in the horizontal position on the base. Fig. 2 is a vertical section of the device with the parts in the same relative position. Fig. 3 is a vertical section of a sofa 20 bed constructed according to this invention and showing the back and seat in their normal position when used as a sofa or davenport. Fig. 4 is a vertical section, partly broken away, on the lines 4—4 of Fig. 2. Fig. 5 25 is a similar vertical section, showing the two bed sections pulled forward so as to bring the top of the back section flush with the back of the base, and showing also in dotted lines the different positions of the seat in operating the locking means which connect the back and seat.

30 In the device shown, the box 1 serves as the supporting base and has its side pieces 2 extending to a greater height than the front 3 and back 4 of said base. On top of each of the side pieces 2 is secured a grooved metal track 5. The back 6 and seat 7 which form the two bed- 35 sections are slidably supported on the base between the raised side pieces 2. Said sections are supported near their connected ends, by the rollers 8 and 9 running in the grooved track 5 at each side of the base. Said rollers 8 and 9 are attached to the seat section and 40 the back section, respectively. The seat 7 is also supported on the rollers 10 which are journaled within the front part of the base at each side, and bear under the side piece 11 of the seat 7. Both the seat 7 and the back 6 have at each side an additional end piece 12 so 45 as to form at each side a recess 13 into which the side piece 2 extends. A drop leg 14 is pivoted to the inside of each member 11 of the seat 7 and is protected by a casing formed of the strips 15 and 16. On the opposite side of each member 11 is pivoted a roller 17 which 50 bears against the inside of the side piece 2. Each of the members 11, both on the seat and on the back is provided on its outer lower end with a beveled guide-strip 18. The lower end of the side-piece 12 is also beveled at 19. The bevel strip 18 and the bevel end 55 19 of the side piece 12 prevent the seat or back from shifting when lowered from the raised position shown

by the dotted lines in Fig. 5 and thus prevent the sides of the bed-sections from striking upon the tracks 5. The two bed-sections are hinged together at 20. The hinges and locking means are of an old form consisting 60 of the plates 21 and 22 which are provided with the locking link 23, the guide 24, pin 25 and pawl 26. The lower forward end of the back 6 is provided at each side with a stop 27 which abuts against the block 28 for limiting the forward movement of the bed-sections 65 upon the base 1, and prevents the same from being pulled forward far enough to release the seat 7 from the track 5.

The operation of the device is as follows: When it is desired to convert the device into a bed, the seat 7 will 70 be pulled forward from the position shown in Fig. 3, by means of the strap 31, and then tilted up to the vertical position shown by the dotted lines in Fig. 5. This will bring the back 6 down to the horizontal position, as the seat 7 and back 6 will during such movement remain 75 locked at right angles by means of the link 23, as shown in Fig. 3. To release the link, the seat 7 will be pushed to the inclined position as shown by the dotted lines toward the left of Fig. 5, and will release the link 23 from the pin 25 through movement of the pawl 26. The 80 seat 7 may then be turned down to the horizontal position, and the bed-sections may be moved on the base either to the middle positions shown in Figs. 1 and 2, or may be pulled forward to the position shown in Fig. 5. In that case, the drop legs 14 will be pulled down to 85 the vertical position, being released from the spring-buttons 30. In the position shown in Fig. 5, the base 1 may have its back against a wall, and the back 6 may be substantially flush with the wall. To reconvert the device into a sofa bed, the seat 7 will be tilted up to the 90 vertical position shown by the dotted lines in Fig. 5. At this position, the link 23 will drop into engagement with the pin 25 and thus lock the two bed-sections together so that the seat may be tilted down to the horizontal position, and the back will at the same time be 95 raised to the vertical position. The seat may then be pushed back to the position shown in Fig. 3.

The location of the supports or rollers 8 and 9 at the adjoining edges of the bed sections and near the axis 20 of their hinge connection, permits the bed sections to 100 be readily tilted on said rollers and provides for considerable leverage in handling the same from the front end at 31. The use of a pair of rollers 8 and 9 at the end of each of the bed sections causes said sections to run smoothly along the track without any twisting strain 105 during their movement from back to front of the base when all of said rollers are in contact with the tracks.

What I claim as my invention and desire to secure by Letters Patent is:

1. A sofa bed comprising a supporting base having at 110 each side a track elevated above the base, a pair of bed-sections hinged together, extending down below said tracks



and provided with supports running upon said tracks, said supports being located at the adjoining edges of said bed sections, and means carried by said bed-sections for locking the bed-sections at an angle to each other, while the bed-sections are being shifted.

2. A sofa bed comprising a supporting base having at each side a track elevated above the base, a pair of bed sections hinged together, extending down below said tracks and provided with supports running upon said tracks, said supports being located at the adjoining edges of said bed sections, and means carried by said bed sections for locking the bed sections at an angle to each other.

3. A sofa bed comprising a supporting base having at each side a track elevated above the base, a pair of bed sections hinged together, extending down below said tracks, the adjoining ends of said bed sections being each provided with a pair of supports running upon said tracks.

4. A sofa bed comprising a supporting base having a front and back wall of substantially the same height, and having side walls of greater height than said front and back, and each carrying upon its upper surface a horizontal track higher than said front and back, a pair of bed-sections hinged together, extending below said tracks, and adapted to slide across said front and back, and provided with supports for carrying the same on said tracks.

5. A sofa bed comprising a supporting base having a front and back wall of substantially the same height, and having side walls of greater height than said front and back, and each carrying a horizontal track higher than said front and back, a pair of bed-sections hinged together, extending below said tracks and adapted to slide across said front and back, and provided with supports for carrying the same on said tracks and located near the hinge connection of said bed-sections.

6. A sofa bed comprising a supporting base having at each side a track elevated above the base, a pair of bed-sections hinged together, extending down below said tracks and provided with supports running upon said tracks, and means carried by said bed-sections for locking the same at an angle to each other, one of said bed-sections being provided with a double outer wall so as to form a recess into which said track extends.

7. A sofa bed comprising a supporting base having at each side a track elevated above the base, a pair of bed-sections hinged together, extending down below said tracks

and provided with supports running upon said tracks, and means carried by said bed-sections for locking the same at an angle to each other, each of said bed-sections being provided with a double outer wall so as to form a recess into which said track extends.

8. A sofa bed comprising a supporting base having at each side a track elevated above the base, a pair of bed-sections hinged together, extending down below said tracks and provided with supports running upon said tracks, and means carried by said bed-section for locking the same at an angle to each other, one of said bed-sections being provided at each side with a beveled guide adapted to prevent its lower edge from resting upon the track when said bed-section is tilted from a vertical to a horizontal position.

9. A sofa bed comprising a supporting base having at each side a track elevated above the base, a pair of bed-sections hinged together, extending down below said tracks and provided with supports running upon said tracks, and means carried by said bed-sections for locking the same at an angle to each other, each of said bed-sections being provided at each side with a beveled guide adapted to prevent the same from resting upon the track when said bed-sections or either of them are tilted from a vertical to a horizontal position.

10. A sofa bed comprising a supporting base having side walls of greater height than its front and back walls, tracks mounted on the upper surfaces of said side walls, a pair of bed-sections hinged together, extending down below said tracks and provided with supports adapted to run upon said tracks, each of said sections being provided with double outer walls, open at their lower edges, and adapted to straddle said tracks.

11. A sofa bed comprising a base having side walls, a pair of tracks mounted upon the upper faces of said side walls, a pair of bed-sections hinged together, extending down below said tracks and provided with supports adapted to run upon said tracks, and means carried by said bed-sections for locking said sections at an angle to each other.

Signed at Chicago, this 21st day of January, 1907.

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Witnesses:

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