No. 889,351. PATENTED JUNE 2, 1908.

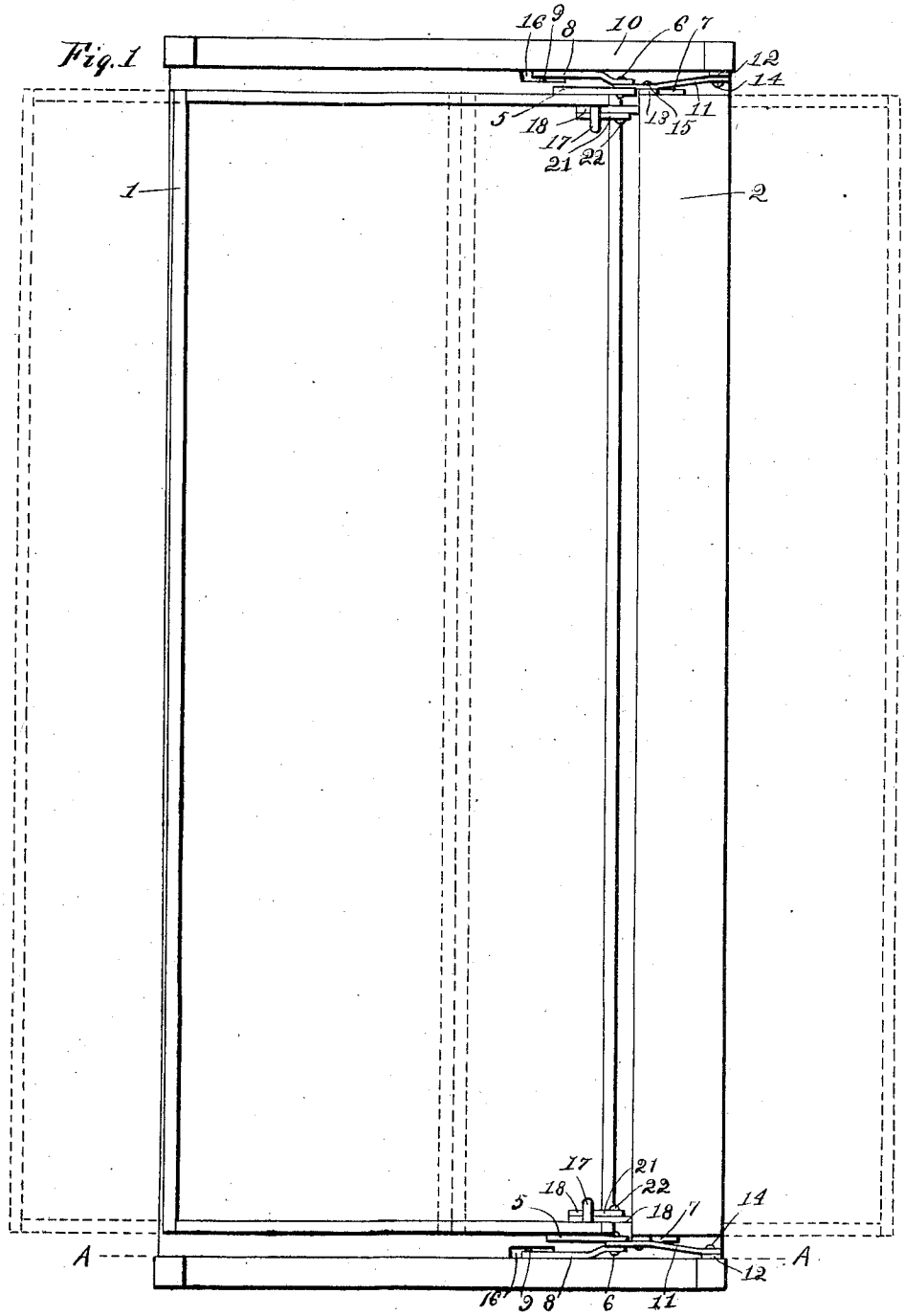
J. L. BLAKE.

COMBINED BED AND COUCH.

APPLICATION FILED SEPT. 30, 1904.

2 SHEETS—SHEET 1.

Fig. 1



Witnesses:

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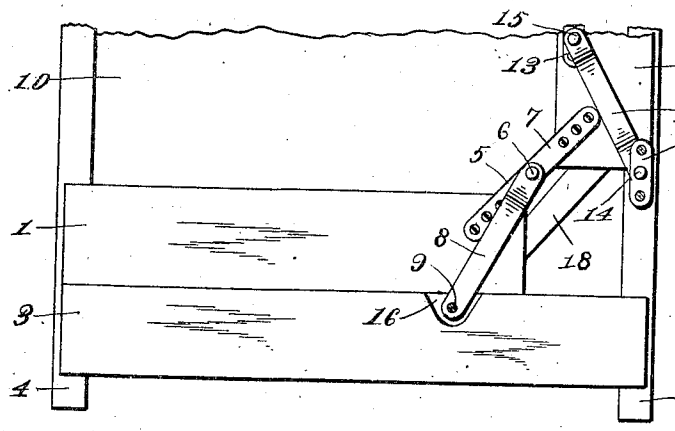


Fig. 1

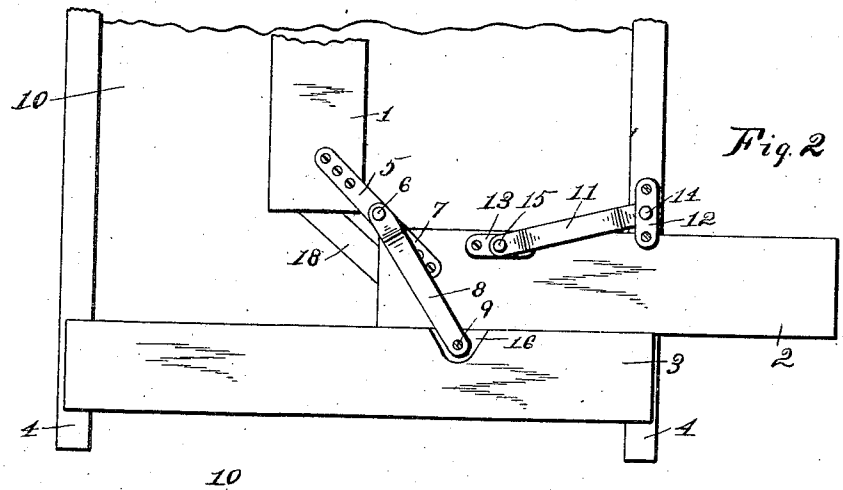


Fig. 2

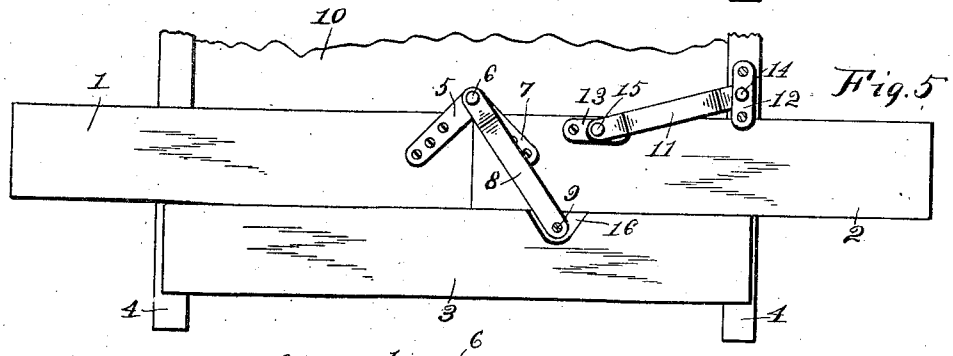


Fig. 5

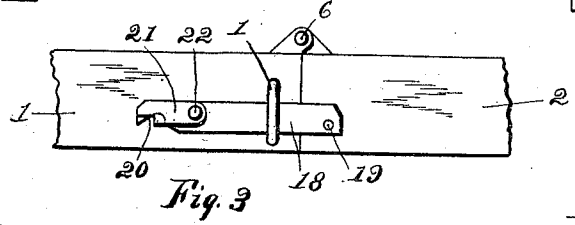


Fig. 3

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UNITED STATES PATENT OFFICE.

JOHN L. BLAKE, OF KANSAS CITY, MISSOURI, ASSIGNOR, BY MESNE ASSIGNMENTS, TO GENEVA FURNITURE MANUFACTURING COMPANY, OF GENEVA, NEW YORK, A CORPORATION OF NEW YORK.

COMBINED BED AND COUCH.

No. 889,351. Specification of Letters Patent. Patented June 2, 1908.

Application filed September 30, 1904. Serial No. 226,647.

To all whom it may concern:

Be it known that I, JOHN L. BLAKE, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented new and useful Improvements in a Combined Bed and Couch, of which the following is the specification.

My invention relates to that class of davenport that are convertible into beds or sleeping couches; and my invention consists in the novel construction, combination and arrangement of parts and also in certain details of construction, as pointed out in the claims.

Referring now to the accompanying drawings: Figure 1 is a top view of a convertible davenport constructed in accordance with my invention, the back being in upright position, and the horizontal position of the back and the seat when made into a bed being indicated by dotted lines. In all the views, the upholstery and springs are omitted, the framework only being shown. Fig. 2 is a vertical section taken on line A—A of Fig. 1, but showing the back laid down flat, thus elevating the seat, the upper portion which is broken away. Fig. 3 shows the positions assumed by the catch bar and its lifting dog when the seat and back are both laid flat, forming a bed. Fig. 4 is a sectional end elevation taken on line A—A of Fig. 1, showing the back in normal position. Fig. 5 is a sectional end elevation taken on line A—A showing the parts in the same position as in Fig. 3.

1 designates the seat frame; 2, the back frame; the cushions being omitted.

3 is the base frame, supported by legs or posts 4.

Referring to Fig. 4, it will be seen that an arm 5 is rigidly screwed to one end of the seat frame 1, and is connected pivotally at 6 to a similar arm 7, rigidly screwed to the same end of the back frame 2. A rocker-arm 8 has its upper end connected to the pivot 6 and its lower end is pivotally connected to the base frame 3 at 9. The back frame 2 is connected to the end plate 10 (Fig. 1) by a link 11, preferably by means of metal plates 12 and 13 screwed to the end plate 10 and back 2, respectively. 14 and 15 are the pivots. 16 is a slight recess cut in frame 3 to receive the lower end of a rocker arm 8. Similar members (with corresponding numerals) are provided at the other end of the davenport or bed.

Referring now to Fig. 2: Inside of each end of the back and seat frames, I provide means for holding the back in upright position. Said position is shown in Fig. 4 but the parts referred to are shown only in Figs. 1 and 2. A strong staple 17 is driven into the end of the back frame 2. A catch arm or dog 18 is pivotally secured to seat-frame 1 at 19, and its opposite end is provided with a recess 20 adapted to engage the staple 17, as shown. A cast-off 21 is pivotally secured at 22 to the dog 18 adjacent the recess. Before the seat-frame 1 can be laid flat, it must be tipped to the position shown in dotted lines. This movement causes the castoff 21 to lift the recess 20 out of engagement with the staple 17, thereby permitting the arm 18 to slide through the staple as the seat is lowered, finally assuming the position shown in Fig. 3. The opposite ends of the frames are provided with the same devices.

From the position shown in Fig. 4, the back may be swung down to the position shown in Fig. 2.

In ordinary davenport beds, the seat must be drawn out from the wall a distance equal to the height of the back, to permit the back to be lowered. With my invention the distance between the back and the wall need only be four inches, as the back projects only that far when lowered.

To convert the davenport into a bed, the seat is lifted to the position shown in Fig. 5, thus lowering the back to horizontal position. The seat is then tipped as shown by dotted lines in Fig. 2, thus disengaging the catches 18, permitting the lowering of the seat, which, in descending, swings in toward the back, as the arms 5 and 7 rock the supporting arms 8 on their pivots 9, and the seat comes to rest in contact with the back, as shown in Fig. 3.

The seat 1 may be provided with a loop for manipulating the same.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent of the United States, is:

1. In a combined bed and couch, the combination with the bed-frame, of a laterally movable support pivoted to the bed-frame, a seat member and a back member pivot-

ally connected together and to said support, and an equalizing member pivoted to the bed-frame and to one of said members.

2. In a combined bed and couch, the combination with the bed-frame, of two supporting members pivoted to the bed-frame, a seat member and a back member pivotally connected to each other and to said supporting members, and movable to and fro therewith, and means by which said supporting members are laterally swung when the seat and back members are swung on said supporting members.

3. In a combined bed and couch, the combination with the bed-frame, of two supporting members pivoted to the bed-frame, a seat member and a back member pivotally connected to each other and to said supporting members, and movable to and fro therewith, and an equalizing member pivoted to said bed-frame and to one of said seat and back members.

4. In a combined bed and couch, the combination with the bed-frame of two rocker-arms pivoted at their lower ends to the bed-frame, a seat member and a back member pivotally connected to each other and to the upper ends respectively of said bars, and two equalizing arms pivoted respectively to the bed-frame and to one of said seat and back members.

5. In a combined bed and couch, the combination with the bed-frame, of a laterally movable support pivoted to the bed-frame, a seat member and a back member pivoted to said support and pivoted to each other so as to swing from a position at right angles to each other to a position in the same plane with each other, means for releasably locking the seat and back members in the position at right angles to each other, and means for laterally swinging said support when the seat and back members are swung on said support.

6. In a combined bed and couch, the combination with the bed-frame, of the seat and back members pivoted to the frame so as to swing laterally and rotate thereon, and hinged to each other so as to be swung from a position in alinement with each other to a position at right angles to each other, means for releasably locking said members in the right-angled position, and means connected with one of said members and the bed-frame by which the seat and back members are laterally swung when they are rotated.

7. In a combined bed and couch, the combination with the bed-frame comprising a base and ends, of two rocker-arms pivoted to said frame, the seat and back members pivoted to each other and to said rocker-arms respectively and movable from a position in alinement with each other to a position at right angles to each other, releasable locking means for holding said members in the right-angled position, and an arm pivoted to one of said members and to said frame so as to swing said members laterally when they are swung on the rocker-arms.

8. In a combined bed and couch, the combination with the bed-frame, of rocker-arms pivoted at their lower ends to the bed-frame, the back and seat members, each having arms pivoted to said rocker-arms and to the arms of the opposite member respectively, and one or more arms pivoted to the bed-frame and to one of said seat and back members so as to control the movement of the rocker-arms when said members are swung thereon.

9. In a combined bed and couch, the combination with the bed-frame of rocker-arms pivoted at their lower ends to the bed-frame, the seat and back members each having arms pivoted to said rocker-arms and to the arms of the opposite member respectively, releasable locking means for holding said members in a position normally at right angles to each other, and one or more arms pivoted to the bed-frame and to one of said members so as to control the movement of the rocker-arms when said seat and back members are both swung on the rocker-arms.

10. In a combined bed and couch, the combination with the bed-frame, of a swinging support mounted thereon, the back and seat members both rotatively mounted on said support independently of each other, a releasable means for locking said members in a position substantially at right angles to each other, and when released permitting said members to be swung in alinement with each other, and means connecting with one of said members and the bed-frame for controlling the swinging of said support.

11. In a combined bed and couch, the combination with the bed-frame, of a swinging support mounted thereon, the seat and back members independently rotatable on said support, releasable means for locking said members in a position substantially at right angles to each other but permitting when released, their disposal in alinement with each other, and means connected with the bed-frame for swinging said support to a position in which the said members will be disposed respectively on opposite sides of the medial line of the bed frame.

12. In a combined bed and couch, the combination with the bed-frame, of a swinging support mounted thereon, the seat and back members independently rotatable on said support, releasable means for locking said members in a position substantially at right angles to each other but permitting, when released, their disposal in alinement with each other, and a controlling arm mounted on the bed-frame and connected with one of said members for swinging said support.

13. In a combined bed and couch, the com-

bination with the bed-frame, of a swinging support mounted thereon, the seat and back members, independently rotatable on said support, releasable means for locking said members in a position substantially at right angles to each other, and an arm pivoted to the bed-frame and to one of said members.

14. In a combined bed and couch, the combination with the bed-frame, of two swinging arms mounted on the bed-frame, the back and seat members, independently rotatable on said swinging arms, releasable means for locking said members in a position substantially at right angles to each other but permitting, when released, their disposal in alinement with each other, and means connected with the bed-frame for swinging said arms when said members are rotated in the locked position upon said arms.

15. In a combined bed and couch, the combination with the bed-frame of two swinging arms mounted thereon, the seat and back members, independently rotatable on said swinging arms, releasable means for locking said members in a position substantially at right angles to each other, but permitting, when released, their disposal in alinement with each other, and a guide mounted on the bed-frame and engaging one of said members for swinging said swinging arms when said members are rotated in the locked position on said arms.

16. In a combined bed and couch, the combination with the bed-frame, of two swinging arms mounted thereon, the seat and back members, independently rotatable on said arms, releasable means for locking said members in a position substantially at right angles to each other, but permitting when released, their disposal in alinement with each other, and an arm pivoted to the bed-frame and to one of said members.

17. In a combined bed and couch, the combination with the bed-frame, of a swinging support mounted thereon, the seat and back members, independently rotatable on said support, means controlled by the rotation of one of said members for laterally swinging said support, a catch carried by one of said members, an arm pivoted to the other member and provided with means for engaging with said catch when either member has been rotated on the swinging support to a certain position, and a device carried by said arm for releasing said arm from the catch when the members are moved to the proper position.

18. In a combined bed and couch, the combination with the bed-frame, of a swinging support mounted thereon, the seat and back members, pivoted thereto and to each other, means controlled by the swinging of one member on said support for swinging said support, an arm pivoted to one member, a catch on the other member adapted to be engaged by said arm when either member has been swung to a certain position relative to the other member, and a dog mounted on said arm and adapted to engage said catch and disengage therefrom said arm when either of said members has been moved to the proper position relative to the other.

19. In a combined bed and couch, the combination with the bed-frame, of a swinging support mounted thereon, the seat and back members, pivotally connected to said support and to each other, a catch on one member, an arm pivoted to the other member and provided with a notch adapted to receive said catch when the members are moved relative to each other to a certain position, and a dog pivoted to said arm and provided with a notch adapted to receive said catch and disengage the arm therefrom when the members are swung to the proper position.

20. In a combined bed and couch, the combination with the bed-frame, of a swinging support mounted thereon, the seat and back members, pivotally connected with said swinging support and with each other, means for swinging said support when one of said members is swung on the support, a staple mounted on one member, an arm pivoted to the other member and slidably mounted in said staple and provided with a notch adapted to receive said staple for locking said members relatively in a given position, and a lifting device carried by said arm and adapted to engage the staple and lift the arm free from engagement therewith when the members are properly positioned.

21. In a combined bed and couch, the combination with the bed-frame, of a swinging support mounted thereon, the seat and back members, pivotally connected with said support and each other, an arm pivoted to the bed-frame and to one of said members and positioned so as to swing the said support when the member to which the arm is pivoted is swung on the support, a staple mounted on one of said members, an arm slidably mounted in said staple and having a notch for engaging the staple, a dog pivoted to the notched arm and provided with a notch for engaging the staple so as to disengage the arm carrying it from the staple upon proper relative movement of said members.

In testimony whereof I affix my signature in the presence of two witnesses.

JOHN L. BLAKE.

Witnesses:
M. L. LANGE,
JAMES A. PLOTNER.