Sept. 28, 1926.

J. J. H. SCHNEIDER

1,601,043

CHAIR

Filed Jan. 27, 1926

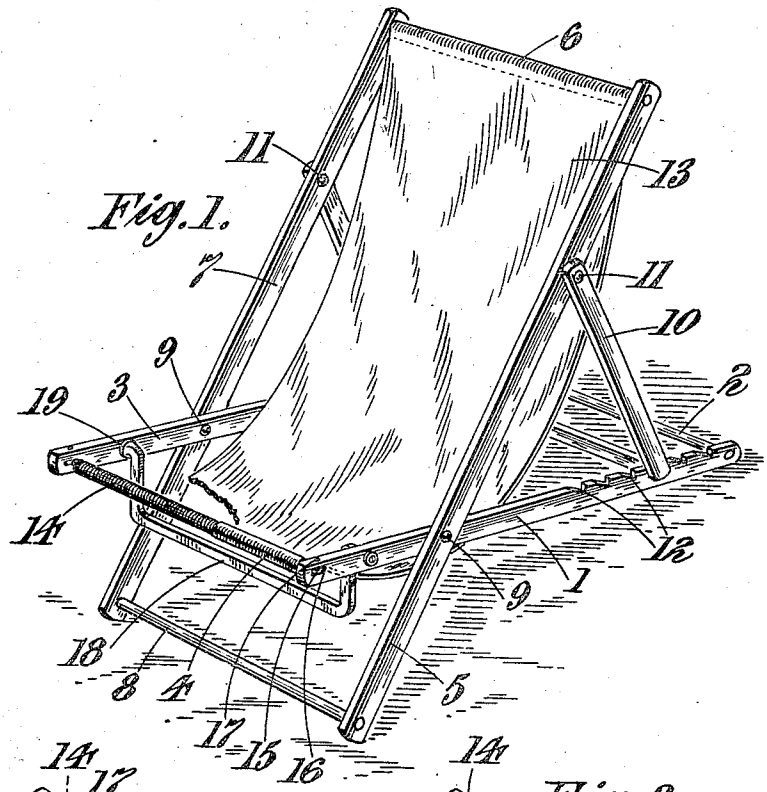


Fig. 1.

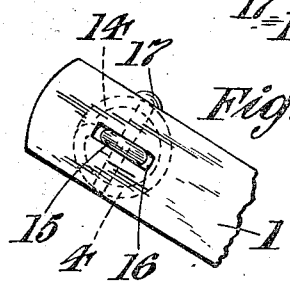


Fig. 2.

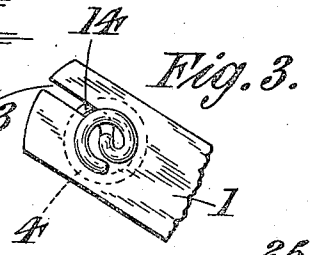


Fig. 3.

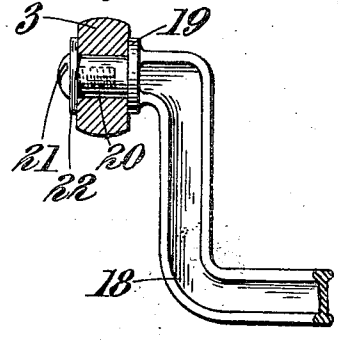


Fig. 4.

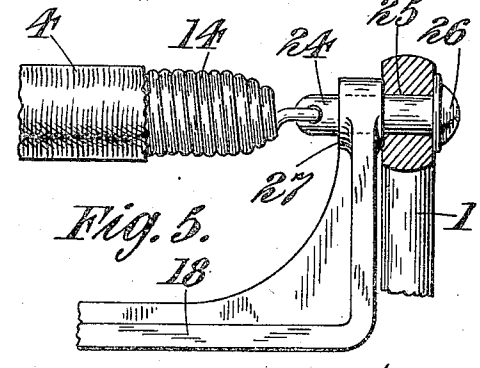


Fig. 5.

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UNITED STATES PATENT OFFICE.

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CHAIR.

Application filed January 27, 1926, Serial No. 83,990, and in Great Britain December 5, 1925.

The invention relates to chairs known as deck chairs which consists of a pair of rectangular frames pivotally connected together at points between their ends, a third frame pivotally mounted on one of the pair of frames and adapted to be engaged with notches in the other pair of frames and a length of flexible material, usually canvas, secured to the rear member of one of the pair of frames (herein called the rear bar) and the front member of the other of the pair of frames (herein called the front bar). Such chairs lack comfort in that the front bar is rigid and the weight of the legs of the occupant of the chair bearing thereon causes discomfort. It is an object of the present invention to provide a chair which shall not have this disadvantage.

According to the present invention, a folding deck chair, has a resilient front bar, by which term is meant a front bar which is resiliently carried or which comprises a resilient member.

Thus, the front bar may be of a length less than the distance between the side members of the frame, and be connected thereto by springs. In a modification the front bar may consist of a single spring attached or mounted at its ends to or on the side members of the frame or it may consist of a plurality of springs.

In a deck chair in which the usual front bar is an essential unit in maintaining the rigidity of the chair, a rigid member is applied to the frame to connect the side members. This rigid member is of U-form disposed under the canvas, and is pivotally mounted at its ends in the side members of the frame so that it can swing or move in relation to the frame.

The invention as applied to a folding deck chair will now be described with reference to the accompanying drawings wherein:—

Fig. 1 shows a deck chair with a part of the canvas broken away,

Fig. 2 an enlarged detail view of the fixing of the resilient front bar,

Fig. 3 an enlarged detail view of a modified fixing of the resilient front bar,

Fig. 4 an enlarged detail view of the mounting of the rigid member and,

Fig. 5 shows a combined fixing for the resilient front bar, and the rigid member.

Referring to Figs. 1 and 2 the deck chair is of the usual form consisting of a pair of rectangular frames 1, 2, 3, 4 and 5, 6, 7, 8 pivotally connected together at points 9 between their ends. A third frame 10 pivotally mounted at 11 on the frame 5, 6, 7, 8 is adapted to engage notches 12 in the side members 1 and 3 of the other frame. A length of canvas 13 is secured to the rear bar 6 of the frame 5, 6, 7, 8 and to the front bar 4 of the frame 1, 2, 3, 4. The front bar 4 of the frame 1, 2, 3, 4 consists of a spiral spring 14 mounted at its ends in the side members 1 and 3. At each end the spring is provided with a loop 15 which is passed into a slot 16 in the side member where it is secured by a pin 17. To maintain the rigidity of the chair, a rigid member 18 of U-form, and it may be of I-section as shown in Figure 4, has its ends bent outward, and each provided with a collar 19. The outer ends of the bent out portions are passed into holes in the side members 1 and 3 thus providing a pivotal mounting, and they may be secured by a screw 21 and washer 22 as shown in Fig. 4, though this may usually be omitted.

In use the resilient front bar 4 will give in accordance with the movement of the occupant of the chair whereby greater comfort will be secured, and the rigid member 18 will maintain the rigidity of the chair. When the chair is folded the rigid member will swing to lie within the frame 1, 2, 3, 4.

In the modified form of fixing of the resilient front bar 4 shown in Figure 3, the last coil of the spring is opened out and the end of the spring is passed through a slot 23 in a side member of the frame so that the last coil lies on the outside of said side member.

In the modified fixing shown in Figure 5 the end of the spring 4 is hooked into a hole in a pin 24 which is accommodated in a hole or slot 25 in the side member of the frame and which has an enlarged head 26. Each end of the U-form member 18 has a boss 27 through a hole in which the pin 24 passes.

The canvas 13 is secured to the resilient front bar 4 in the usual way by forming a hem and passing the bar therethrough.

Instead of a spring or springs, rubber may be employed for the resilient front bar.

What I claim is:—

1. A folding deck chair comprising a pair of rectangular frames pivotally connected together at points between their ends, a

third frame pivotally mounted on one of the pair of frames and adapted to engage the other of the pair of frames, a length of flexible material secured to the rear bar of one of the pair of frames and to a resilient front bar of the other of the pair of frames, and a rigid member of U-form pivotally mounted at its ends on the side members of the other of the pair of frames towards their front ends under the flexible material.

2. A folding deck chair comprising a pair of rectangular frames pivotally connected together at points between their ends, a third frame pivotally mounted on one of the pair of frames and adapted to engage the other of the pair of frames, a length of flexible material secured to the rear bar of one of the pair of frames and to a resilient front bar comprising a spiral spring of the other of the pair of frames, and a rigid member of U-form pivotally mounted at its ends in the side members of the other of the pair of frames towards their front ends under the flexible material.

3. A folding deck chair comprising a pair of rectangular frames pivotally connected together at points between their ends, a third frame pivotally mounted on one of the pair of frames and adapted to engage the other of the pair of frames, a length of flexible material secured to the rear bar of one of the pair of frames and to a resilient front bar comprising a spiral spring engaging at its end slots in the side members in the other of the pair of frames and a rigid member of U-form pivotally mounted at its ends in said side members towards their front ends under the flexible material.

Dated this eighth day of January, 1926.

J. J. H. SCHNEIDER.