Jan. 27, 1953 J. H. VAN WYCK 2,626,653

DECK CHAIR

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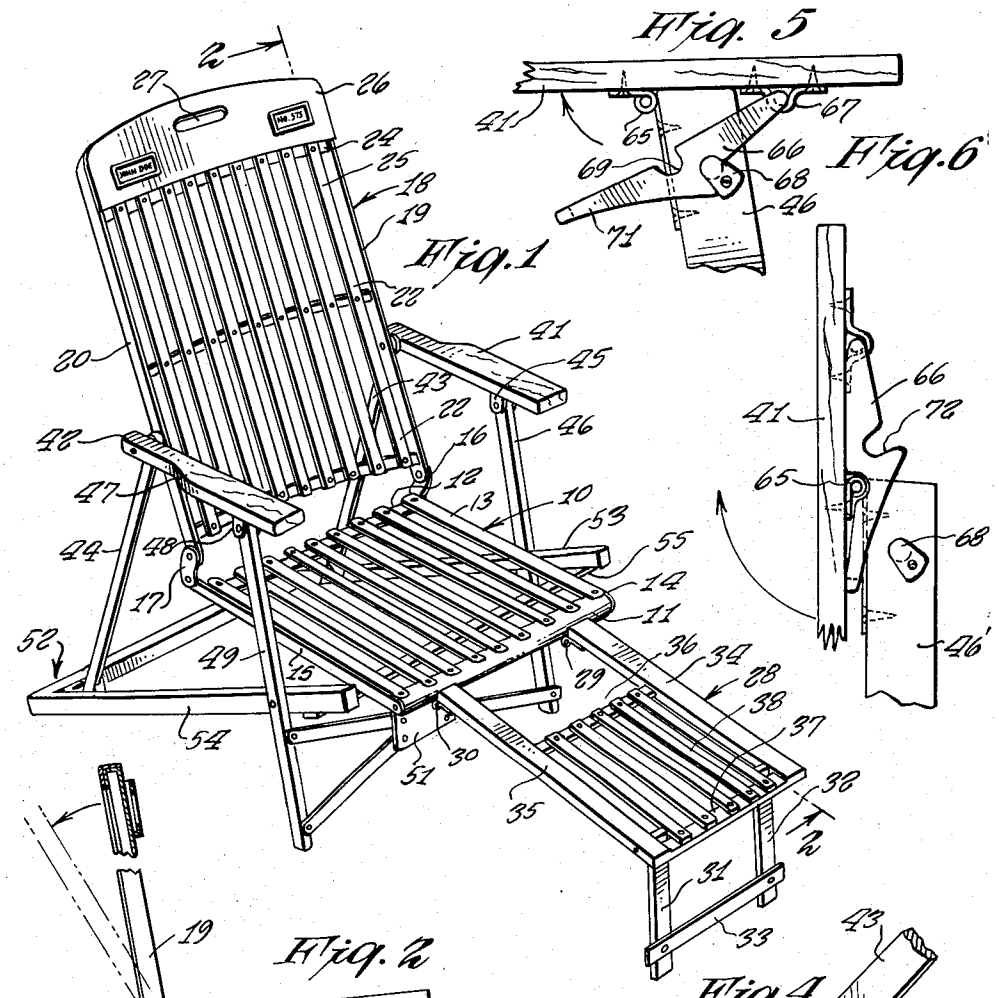

Fig. 1

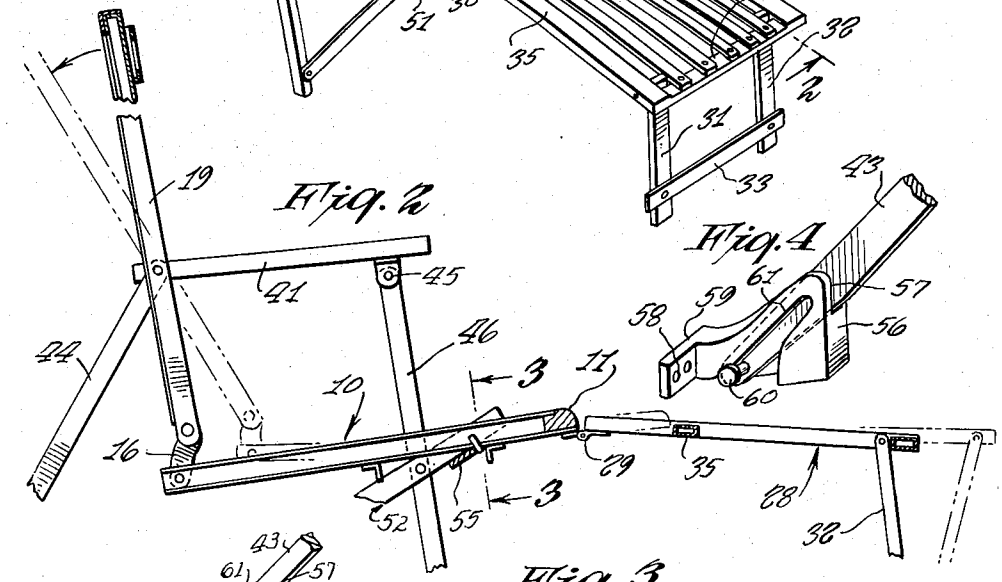

Fig. 2

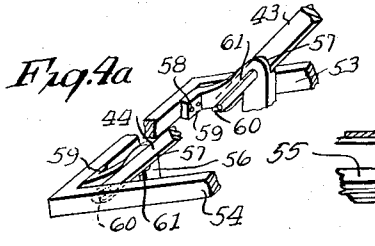

Fig. 4a

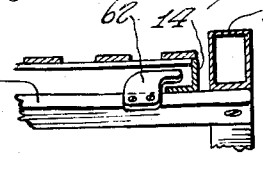

Fig. 3

Fig. 5

Fig. 6

Fig. 4

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DECK CHAIR

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3 Claims. (Cl. 155—105)

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This invention relates to a deck chair.

It is an object of the present invention to provide a deck chair of the folding type wherein the parts are firmly held when the chair has been fixed in an upright position and wherein the parts of the chair, including leg rests, seat, back rest and arms and legs can be folded into a compact structure.

It is another object of the present invention to provide for a deck chair fittings for receiving the ends of various parts of the chair in such a manner that they can be easily lifted and adjusted or hinged without sticking and without effort, said fittings providing simple locking means for retaining the parts against pivotal movement with respect to one another.

It is another object of the present invention to provide a locking means for a deck chair available at the arms of the chair to release the parts so that the chair can be readily collapsed.

Other objects of the present invention are to provide a deck chair which is of simple construction, inexpensive to manufacture, easy to fold and to unfold, compact, has a minimum number of parts, convenient to use and efficient in operation.

For other objects and for a better understanding of the invention, reference may be had to the following detailed description taken in connection with the accompanying drawing, in which

Fig. 1 is a perspective view of the deck chair embodying the features of the present invention.

Fig. 2 is a longitudinal sectional view taken generally on line 2—2 of Fig. 1.

Fig. 3 is a transverse fragmentary sectional view taken on line 3—3 of Fig. 2.

Fig. 4 is a fragmentary perspective view of a rear leg fitting.

Fig. 4a is a fragmentary perspective view of the brackets fastened to the member connecting the legs.

Figs. 5 and 6 are respectively fragmentary side elevational views of an arm latch, the view in Fig. 5 showing the latch in place to hold the leg against hinge movement with respect to the arm and the view in Fig. 6 showing the parts in collapsed position.

Referring now to the figures, 10 represents a seat portion formed of a forward transverse member 11, a rear transverse member 12 and slats 13 extending between the members. This seat portion has sides 14 and 15 also connected between the forward and rearward transverse members. Through links 16 and 17 pivotally connected to the rear ends of the side members

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14 and 15 respectively, a seat back 18 is connected. This seat back comprises side members 19 and 20 respectively pivotally connected to the links 16 and 17, bottom intermediate and top transverse members 22, 23 and 24 to which vertically extending slats 25 are connected. At the upper end of the back 18 is a top plate 26 having a hand hole 27.

A leg rest 28 is hingedly connected by hinges 29 and 30 to the front transverse member 11 of the seat portion 10. Supporting legs 31 and 32 joined at their lower ends by a transverse member 33 are respectively pivotally connected to the leg rest 28.

The leg rest 28 comprises side members 34 and 35 joined together by transverse members 36 and 37. Between the transverse members are slats 38.

Pivotally connected to the respective side members 19 and 20 are arm rests 41 and 42 respectively. Also pivoted at their same locations are respectively rear supports 43 and 44. On the arm 41 is a depending bracket 45 to which is pivotally connected a forward supporting leg 46. On the forward part of arm rest 47 is a depending bracket 48 to which is pivotally connected a rorward leg 49. The lower ends of these forward legs 46 and 49 are connected together by a transverse supporting structure 51.

A U-shaped member 52 having side leg portions 53 and 54, respectively, pivotally connected to the forward legs 46 and 49, serves to retain the rear supports 43 and 44 against rearward displacement. The forward ends of the legs 53 and 54 project forwardly of the front legs 46 and 49 and have a transverse member 55 for supporting the seat 10.

On the rearward end of the U-shaped frame 52 are specially formed brackets 56 for receiving the lower ends of the rear supports 43 and 44. As shown in Fig. 4, this bracket has an inclined slot 57 into which the end of the rear leg extends. This bracket is connected to the rear part of the U-shaped frame by screws extending through openings 58 in a transverse flange 59. The support 43 is held against outward displacement from the bracket by a pin 60 that travels in an external slot 61. When the support 43 is raised so that the pin 60 is at the upper end of the slot 61, the leg can pivot so that the chair portions can be folded upon one another.

Connected to the transverse member at each side thereof is a projection 62, Fig. 3, which extends laterally into the side member of the seat portion 10. Accordingly, when the parts are pivoted upon one another, the U-shaped frame

52 will retain the seat portion 10. Accordingly, the side members 14 and 15 are in the form of guides for receiving the projections 62 whereby to prevent the separation of the seat portion from the U-shaped frame 52.

If desired, the locking latch, shown in Figs. 5 and 6, may be used with this construction. With this construction, the leg 46' is hingedly connected by a hinge 65 with an arm rest 41. A latch 66 is pivotally connected to a hinge plate 67 on the bottom of the arm rest and when the arm rest is extended to the horizontal position, upon the upper end of the forward leg 46', it can be locked by the latch 46 being lowered onto a catch 68 carried by the leg. A notch 69 is provided in the latch 66 to accommodate the hinge 65. The latch has a handle 71 which extends rearwardly from the leg 46'. A notch 72 is provided on the lower edge of the latch 66 to accommodate the projection 68.

The chair can be readily folded by lifting upwardly upon the seat portion 10 and bringing it against the back. The U-shaped frame will accommodate the seat portion so that the portions and the various parts can extend parallel to one another and consume little space. This action cannot be effected until the legs are pulled upwardly in the brackets 56.

While various changes may be made in the detail construction, it shall be understood that such changes shall be within the spirit and scope of the present invention as defined by the appended claims.

Having thus set forth and disclosed the nature of my invention, what is claimed is:

1. A deck chair comprising a seat portion having side guide members, a back portion adjustably connected to the seat portion, an arm rest and a rear support pivotally connected to each side of the back rest, a front leg structure connected to the forward ends of the arm rests for pivotal adjustment with respect thereto, a U-shaped frame having side leg portions, said side leg portions being pivotally connected to the front legs and respectively having projections extending into the guide members of the seat portion, and means for releasably and pivotally securing the lower ends of the rear supports to the U-shaped frame.

2. A deck chair comprising a seat portion having side guide members, a back portion adjustably connected to the seat portion, an arm rest and a rear support pivotally connected to each side of the back rest, a front leg structure connected to the forward ends of the arm rests for pivotal adjustment with respect thereto, a U-shaped frame having side leg portions, said side leg portions being pivotally connected to the front legs and respectively having projections extending into the guide members of the seat portion, and means for releasably securing the lower ends of the rear supports to the U-shaped frame, and a leg rest hinged to the forward end of the seat portion and adapted to be collapsed therewith.

3. A deck chair comprising a seat portion having side guide members, a back portion adjustably connected to the seat portion, an arm rest and a rear support pivotally connected to each side of the back rest, a front leg structure connected to the forward ends of the arm rests for pivotal adjustment with respect thereto, a U-shaped frame having side leg portions, said side leg portions being pivotally connected to the front legs and respectively having projections extending into the guide members of the seat portion, and means for releasably securing the lower ends of the rear supports to the U-shaped frame, and a latch pivotally connected to each arm rest and a bracket on each leg receiving said latch whereby to lock the arm to the leg when the chair is set up and to prevent the angular displacement of the parts relative to each other.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
162,594	Watson	Apr. 27, 1875
2,113,145	Van Wyck	Apr. 5, 1938

FOREIGN PATENTS

Number	Country	Date
30,275	Austria	Oct. 10, 1907
797,067	France	Apr. 20, 1936
194,106	Great Britain	Mar. 8, 1923