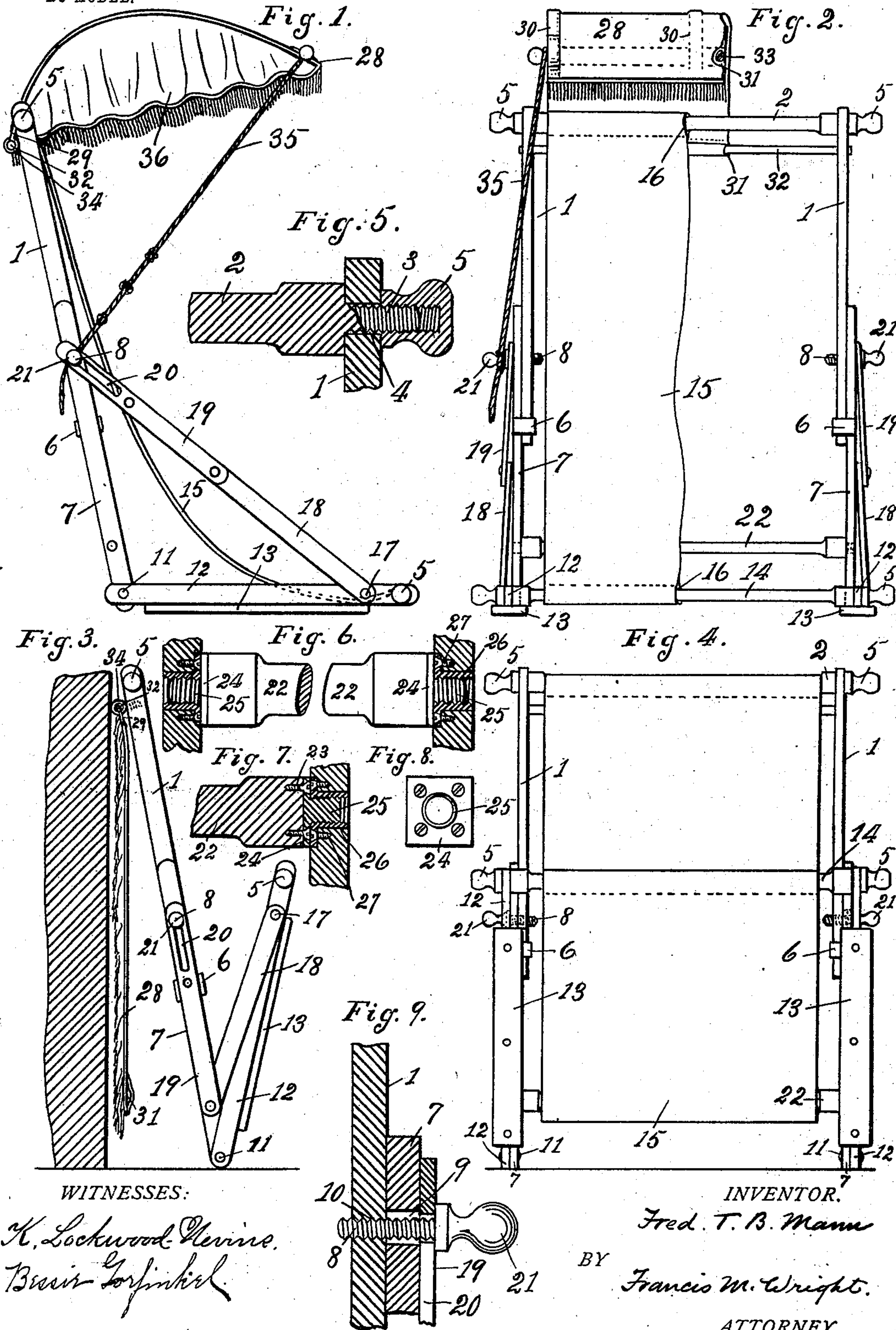


No. 725,348.

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F. T. B. MANN.  
FOLDING SHADE CHAIR.  
APPLICATION FILED OCT. 9, 1902.

NO MODEL.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

FREDERICK T. B. MANN, OF LONGBEACH, CALIFORNIA.

## FOLDING SHADE-CHAIR.

SPECIFICATION forming part of Letters Patent No. 725,348, dated April 14, 1903.

Application filed October 9, 1902. Serial No. 126,568. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK T. B. MANN, a subject of the King of Great Britain, residing at Longbeach, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Folding Shade-Chairs, of which the following is a specification.

My invention relates to a folding shade-chair, the object of my invention being to provide a chair of light weight which can be folded into small compass and which shall be provided with a shade, being thus convenient for use at the seaside, on grass lawns, for picnic parties, artists, campers, &c.

In the construction of my improved chair legs are dispensed with, as most people prefer to sit down on the sand or lawn itself, and the omission of the legs permits the chair being of very light weight, this being of great importance for a chair which is to be carried to a distance. It is so constructed that it can be taken to pieces in a few minutes and reduced to a small compass, so that it may be carried in a small bag in one hand or packed away in a trunk when traveling to the seaside or elsewhere. When the distance is short, the chair need not be taken to pieces, but may be carried about folded up like an ordinary camp-chair, the sunshade loosely hanging down behind.

My invention therefore resides in the novel construction, combination, and arrangement of parts for the above ends hereinafter fully specified, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of the chair ready for use. Fig. 2 is a front elevation of the chair, the canvas back and sunshade being broken away to show the construction. Fig. 3 is a side elevation of the chair partly folded up and leaning against the wall, the sunshade in this case hanging loosely down at the back. Fig. 4 is a front elevation of the chair in the same position. Fig. 5 is a detail vertical section of the screws for securing the top and seat braces to the side and seat bars of the chair. Fig. 6 is a broken front elevation of the back-brace which connects the two lower side bars, the sockets in said side bars being shown in section to show the right and left

hand screws at the ends of said brace. Fig. 7 is a vertical section showing the attachment of the back-brace to the lower side section. Fig. 8 is an end view of said back-brace. Fig. 9 is a vertical section showing the attachment of the tie-sections to the side bars.

Referring to the drawings, 1 represents the two upper side bars of the chair, which are firmly held together at the top by the top-brace or cross-bar 2, said top-brace having at each end a screw 3, passing through an aperture 4 in the side bar and clamped to said bar by means of an internally-threaded knob 5. These screws 3 are preferably made of hard wood, as they can be screwed up tighter and bind the bars 2 and side bars 1 more firmly together. However, steel screws may be substituted for the hard-wood screws in case the latter should wear too fast.

The lower ends of the upper side bars 1 pass through eyes 6, attached to the lower side bars 7, and are secured to the upper ends of said lower side bars by means of hard-wood screws 8, which are passed through apertures 9 in the lower bars and are screwed into screw-threaded apertures 10 in the upper bars 1. At the lower ends of the lower side bars are attached by rivets 11 the seat-bars 12, which are provided with shoes 13 to rest upon the ground. The front ends of said seat-bars 12 are held together by means of the seat-brace 14, secured to said seat-bars 12 in like manner as the top-brace 2 to the side bars 1.

To the top-brace 2 and seat-brace 14 is attached the back 15, of canvas or duck webbing, said back being formed with end loops 16, which receive the top and seat braces. Said back thus forms both a cover for the bare ground and a support for the back of the occupant.

To the seat-bars 12 are pivotally attached, as shown at 17, the lower tie-sections 18, which at their upper ends are pivoted to the upper tie-sections 19. The latter have at their upper ends slots 20, through which pass the wooden screws 8, before mentioned, so that the upper ends of the upper tie-sections pass between the heads 21 of said screws and the sides of the lower side bars 7. By means of said slots the angular elevation of the side bars is adjusted to suit the occupant.

The lower ends of the sides are braced to-



gether by means of the back-brace 22. The ends of said back-braces have firmly secured thereon by means of screws 23 the screw-plates 24, which have formed integral there-  
 5 with the large screws 25, which enter internally-threaded metallic sockets 26, let into the side bars and secured by screws 27. The screws 25 at opposite ends of the back-brace are right-handed and left-handed, respectively, so that  
 10 by turning the back-brace around in the proper direction both screws will be caused to screw into the sockets at the same time in one direction, drawing the side bars toward each other and moving them away from each  
 15 other in the opposite direction.

The sunshade 28 is supported upon light flexible steel bands 29, of which two are at the sides of the sunshade and one in the middle, contained in longitudinal loops 30, formed in  
 20 the sunshade. In the end loops 31, formed therein, are contained the light hard-wood rods 32 33, the rear rod 32 being passed through screw-eyes 34, screwed into the rear edges of the upper side bars, while to the ends of the  
 25 front rod 33 are attached cords 35. By drawing down said cords and attaching the lower ends thereof to the heads 21 of the screws 8 the front side of the shade is drawn down, the steel bands 29 bending and giving a curved  
 30 shape to the shade, as clearly shown in Fig. 1, bringing the front of the shade down sufficiently to protect the occupant from the glare of the sun. There are also provided side curtains 36 to protect the occupant from  
 35 the side lights.

To fold up the chair, the cords 35 are released and the sunshade allowed to fall over the back, the screws 8 partly unscrewed, the tie-sections pushed down, the seat-brace  
 40 moved up to the side bars, and the screws 8 tightened up again. The chair can then be comfortably carried under one arm by holding the seat-brace in one hand, the sunshade being turned inward against the side and hip.  
 45 It is evident that the top and seat braces

and tie-sections on each side of the chair can be detached from the remainder of the chair, forming two separate pieces. The back-brace will form a third piece. The top-brace and the seat-brace will be left in their loops in the  
 50 ends of the canvas back. The sunshade can likewise be folded into small compass by removing the end rods from their loops, placing them longitudinally or parallel with the steel bands, and rolling the sunshade up.  
 55 The sunshade, with the three other pieces, can then be placed upon the canvas back parallel with the top and seat brace, which will be left in the loops of said back, and the whole will then be folded up into very small com-  
 60 pass.

I claim—

1. In a folding chair, the combination of the upper and lower separable side bars, the tie-pieces slotted at their upper ends, the screws  
 65 passing through said slots and connecting together the upper and lower side bars and tie-pieces, additional supports between said bars at a distance from said screws, and the seat-bars attached to the lower ends of the lower  
 70 side bars and of the tie-pieces, substantially as described.

2. The folding chair comprising the side bars, the seat-bars, the top-brace removably connecting the upper ends of the side bars,  
 75 the seat-brace connecting the outer ends of the seat-bars, the tie-pieces connecting said side bars and seat-bars and the back-brace having right and left hand threads for screwing into bars on opposite sides of the chair  
 80 adjacent to the juncture of the side and seat bars, substantially as described.

In witness whereof I have hereunto set my hand in the presence of two subscribing witnesses.

FRED. T. B. MANN.

Witnesses:

M. A. GARDNER,  
 L. V. BARTH.