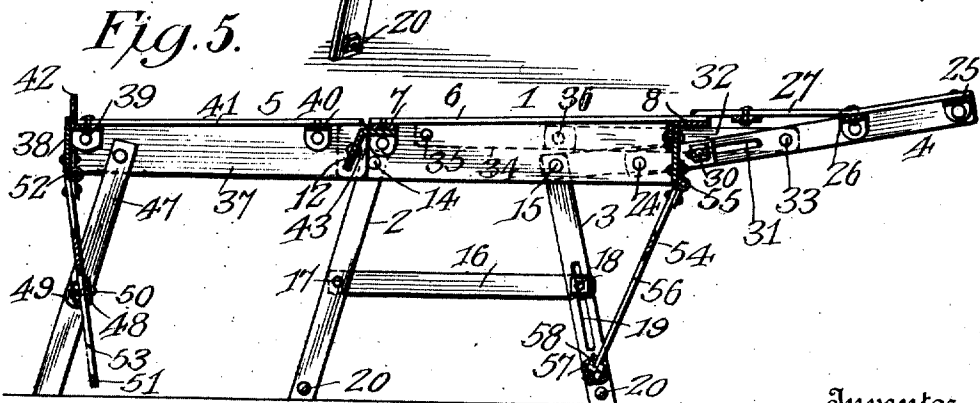
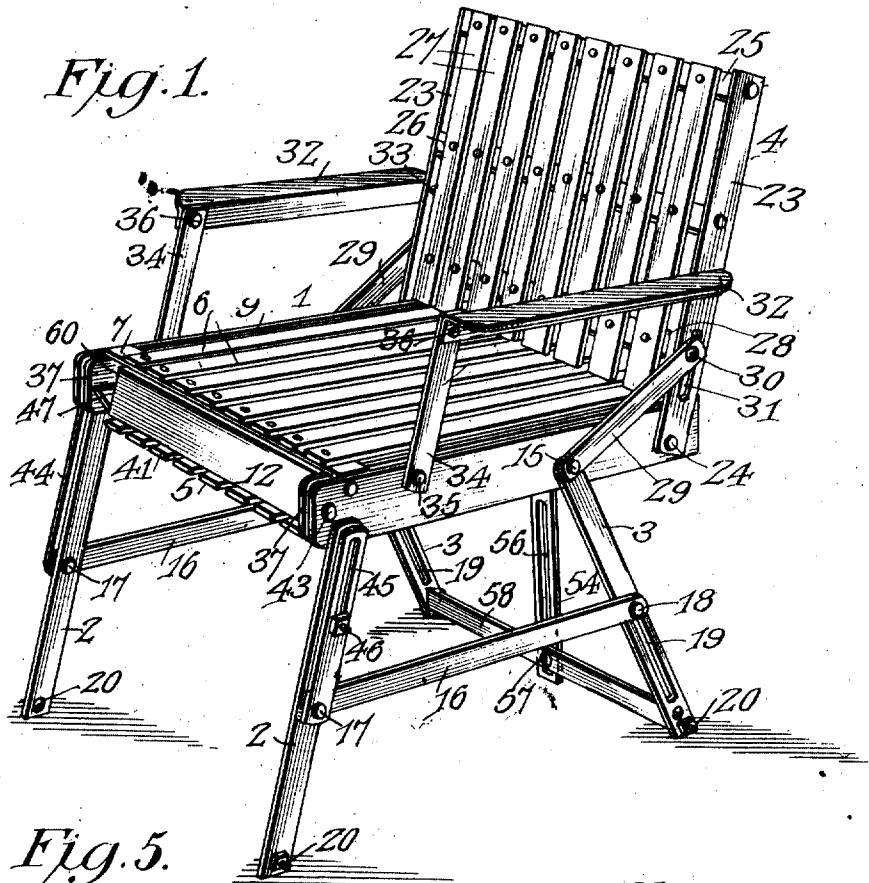


B. W. PATTINSON.
FOLDING CONVERTIBLE CHAIR.
APPLICATION FILED DEC. 23, 1909.

1,002,305.

Patented Sept. 5, 1911

3 SHEETS-SHEET 1.



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3 SHEETS—SHEET 2.

Fig. 2.

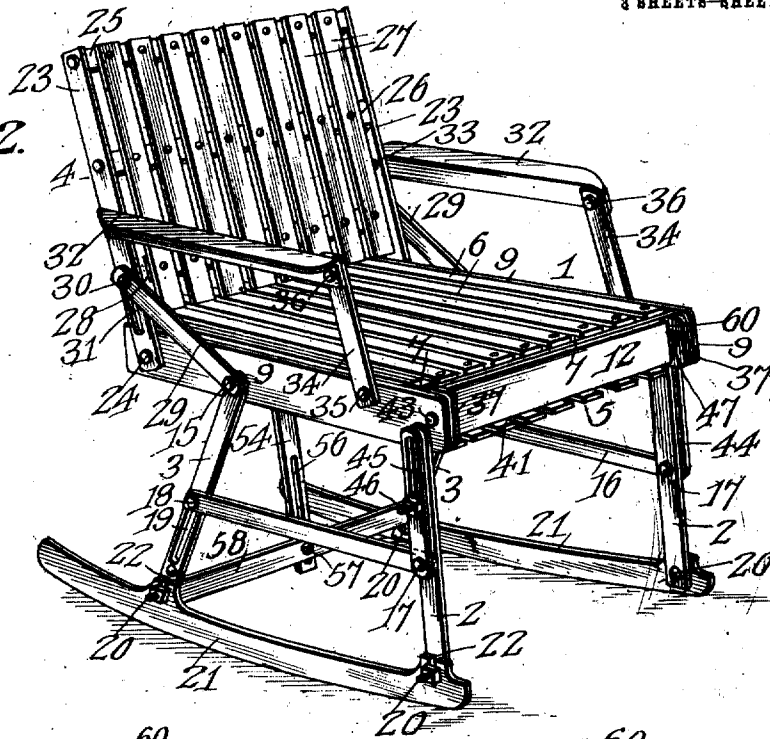


Fig. 7.

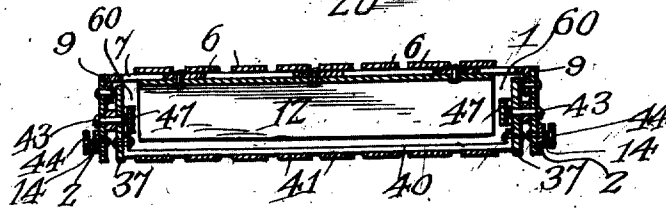
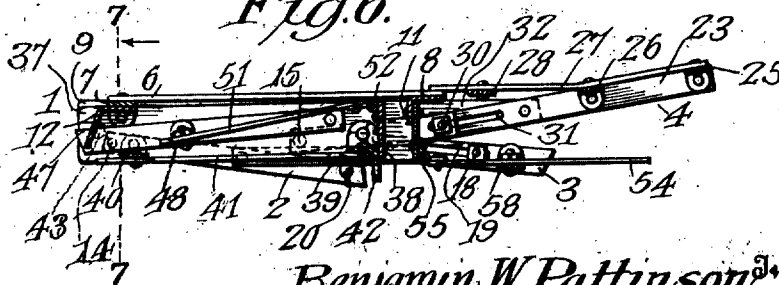


Fig. 6.



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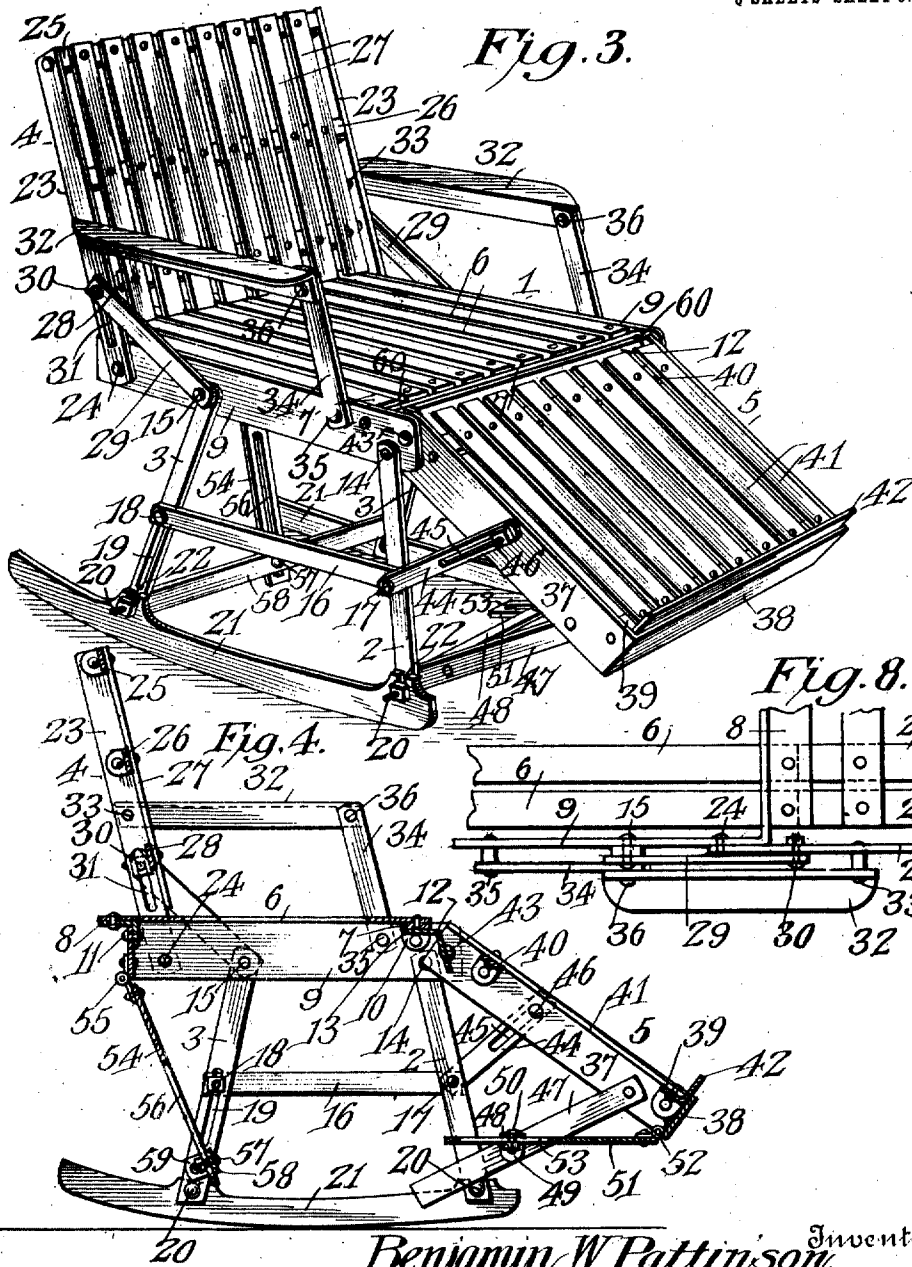
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3 SHEETS—SHEET 3.

1,002,305.



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UNITED STATES PATENT OFFICE.

BENJAMIN W. PATTINSON, OF MANITOU, COLORADO.

FOLDING CONVERTIBLE CHAIR.

1,002,305.

Specification of Letters Patent.

Patented Sept. 5, 1911.

Application filed December 23, 1909. Serial No. 534,729.

To all whom it may concern:

Be it known that I, BENJAMIN W. PATTINSON, a citizen of the United States, residing at Manitou, in the county of El Paso and State of Colorado, have invented a new and useful Folding Convertible Chair, of which the following is a specification.

The invention relates to a folding convertible chair.

The object of the present invention is to improve the construction of convertible chairs, and to provide a simple and comparatively inexpensive one, designed for use in homes, hospitals and elsewhere, and adapted to be readily adjusted to arrange it for use as an ordinary or Morris chair, a rocking chair and an invalid or doctor's chair, and capable of also being converted into a couch and of being compactly folded when not in use.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings:—Figure 1 is a perspective view of a convertible chair, constructed in accordance with this invention and arranged for use as a common or Morris chair. Fig. 2 is a similar view, the parts being arranged to form a rocking chair. Fig. 3 is a perspective view, the parts being arranged to form an invalid chair. Fig. 4 is a vertical longitudinal sectional view of the same. Fig. 5 is a longitudinal sectional view, the parts being arranged to form a cot or couch. Fig. 6 is a longitudinal sectional view, the parts being folded. Fig. 7 is a transverse sectional view, taken substantially on the line 7—7 of Fig. 6. Fig. 8 is a detail sectional view of one side of the chair, showing the parts in their folded positions.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

The convertible chair comprises in its construction a chair 1, front and rear legs 2 and 3, a hinged back 4 and a pivoted front section or leg rest 5. The seat of the chair,

which may be variously constructed, is, in the embodiment of the invention illustrated in the accompanying drawings, composed of a series of longitudinal slats 6, arranged in parallelism and secured at their front and rear ends to transverse bars 7 and 8. The bars 7 and 8 extend across the seat frame 9, which is composed of spaced sides and a connecting rear portion. The front cross bar 7, when constructed of metal, has its terminals 10 bent downward and secured to the inner faces of the sides of the frame 9 of the seat. The rear cross bar is constructed of angle iron, or other suitable material, and it is composed of vertical and horizontal wings or flanges, the vertical wing or flange being secured by rivets 11, or other suitable fastening means to the inner or front face of the rear connecting portion of the seat frame 9. The horizontal wing or flange of the bar 8 extends rearwardly from the rear connecting portion of the seat frame 9, and it provides an attaching portion for the rear ends of the slats 6. The front bar 7 also carries an inclined guard 12, extending downwardly and forwardly from the cross bar 7 and having a horizontal flange or attaching portion 13, secured to the lower face of the cross bar 7 by rivets, or other suitable fastening means.

The front and rear legs are secured at their upper ends to the sides of the frame 9 by suitable pivots 14 and 15, and the said legs are connected at an intermediate point by rear side braces 16, connected at their front ends to the front legs 2 by pivots 17, and equipped at their rear ends with clamping bolts 18, or other suitable fastening means, operating in slots 19 of the rear legs and adapted to permit an adjustment of the legs 2 and 3. When the chair is arranged as a common or a Morris chair, the lower ends of the legs rest upon the floor, or other supporting surface, and they are provided with clamping bolts 20, adapted to secure rockers 21 to the legs to form a rocking chair. The rockers, which may be constructed of any suitable material, are provided with upwardly projecting lugs or portions, arranged in pairs and spaced apart to form notches 22, which are adapted to receive the said bolts 20. The nuts of the bolts clamp the rockers against the legs, and the notches in the bolts securely interlock the legs with the rockers. The rockers, which are readily detachable, are adapted to slide in and out of the notches 22.

may be quickly applied to the legs when desired.

The back 4 is provided with side bars 23, secured at their lower ends by pivots 24 to the seat frame at the rear ends of the sides thereof, and they are connected at the upper ends and at an intermediate portion by fixed transverse bars 25 and 26 located at the top and approximately at the center of the back of the chair. The bars 25 and 26 support longitudinal slats 27, arranged flatwise on the fixed cross bars 25 and 26 and connected near their lower ends by a movable cross piece 28 and arranged in parallelism and in alinement with the slats 6 with the bottom of the chair. The longitudinal slats are rigidly supported between the fixed cross bars, and their lower portions are adapted to flex from the points of connection with the lower fixed cross bar. This construction provides a back with a rigid upper portion, and it forms a yieldable lower portion adapted to be flexed rearwardly or outwardly. The back is adjustable and is secured in its adjustment by spaced inclined braces 29, connected at their lower ends with the seat by the pivots 15 of the rear legs, and provided at the upper ends with clamping bolts 30, operating in slots 31 of the side bars or pieces 23 of the back. The hinged or pivoted back is adjustable being adapted to swing forwardly or rearwardly, and the braces 29 firmly maintain the back in its adjusted position.

The chair is also preferably equipped with arms 32, connected at their rear ends with the side pieces 23 of the back 4 by suitable pivots 33 and supported at their front ends by upright bars or members 34, pivotally connected at their lower terminals 35 to the sides of the seat frame, and at their upper terminals 36 to the front ends of the arms. The arms and the pivoted supporting members 34 are adapted to swing downward and lie below the plane of the upper faces of the seat and the back, when the latter is arranged in a slightly inclined or a horizontal position to form a cot or couch, as illustrated in Fig. 5 of the drawings.

The front section or leg rest 5 is provided with an approximately rectangular frame 37, composed of sides and a connecting front portion 38. The sides are also connected by front and rear cross bars 39 and 40, to which longitudinal slats 41 are secured. The slats 41 are arranged in parallelism and in alinement with the slats 6 and 27 of the seat and the back. The front cross bar 39 is also provided with an upwardly projecting flange 42, forming a stop for retaining a cushion or mattress in place. The rear ends of the sides of the frame 37 are connected by pivots 43 to the inner faces of the front ends of the sides of

the frame 9, the front terminals of the sides of the frame 9 being extended slightly in advance of the cross bar 7 and the guard 12, which terminates short of the sides of the frame 9 to permit the hinged front section or leg rest to fold beneath the seat, as illustrated in Figs. 1 and 2 of the drawings. In this position the hinged section or rest 5 is out of the way, and at the same time it is in a convenient position to enable it to be readily arranged for use when desired. No means is shown in the drawings for securing the foldable leg rest in its position beneath the seat, and any means may be employed for this purpose. The hinged front section or rest 5 is supported in an inclined position by braces 44 to form an invalid chair, as illustrated in Fig. 3 of the drawings. The braces 44, which extend forwardly and upwardly from the front legs, are connected with the same at a point intermediate of the ends thereof by the pivots 17, and the outer or upper portions of the braces 44 are provided with longitudinal slots 45 for the reception of clamping bolts 46, mounted upon the sides of the frame 37 of the leg rest or section 5 at a point intermediate of the front and rear ends of the same. By adjusting the braces through the slots and the clamping bolts, the hinged front section or rest 5 may be supported at different elevations.

The front section or rest 5 is also equipped with supplemental legs 47, pivoted at their upper ends to the sides of the frame 37 and connected at an intermediate point by a cross bar 48, provided at its ends with lugs or ears 49, which are pivoted by suitable fastening devices to the inner faces of the supplemental legs 47. The pivotal cross bar 48 is secured by a clamping bolt 50 to the lower or inner portion of a brace 51, connected at its upper or front end by a hinge 52 to the front portion 38 of the frame 37 at the center of the said portion 38, and provided at its lower portion with a longitudinal slot 53, in which the bolt 50 operates. The brace 51 is adapted to hold the legs 47 in a vertical position when the front section 5 is arranged horizontally, and the said brace 51 is also adapted to hold the legs 47 in an inclined position above the supporting surface, as illustrated in Fig. 4 of the drawings, when the parts are arranged to form a rocking chair. The rear portion of the seat is equipped with a central brace 54, connected at its upper end by a hinge 55 with the rear connecting portion of the frame 9 and provided at its lower portion with a longitudinal slot 56 for the reception of a clamping bolt 57, which adjustably secures a pivotal cross bar 58 to the lower portion of the brace 54. The cross bar 58 is provided with terminal ears or lugs 59, which are pivoted to the inner faces of the

rear legs at the lower portions thereof. The legs are adapted to be rigidly secured in their supporting position to support the seat in a horizontal position, and the back is adapted to be secured in an inclined position by the rear upper braces 29. This forms an ordinary or Morris chair, as shown in Fig. 1. The application of rockers to the legs converts the chair into a rocking chair, as shown in Fig. 2. When it is desired to convert the chair into an invalid chair, the front section or leg rest 5 is swung from beneath the seat and is secured in such position by the lower front inclined brace 44. With this arrangement the rockers may or may not be employed. The back is adapted to be swung downward to a horizontal position to form an extension of the seat in arranging the parts as a cot or couch, and when arranged in this position, as illustrated in Fig. 5 of the drawings, the inner ends of the slats 27 overlap the adjacent ends of the slats 6 and rest upon the same. This provides a rigid support for the slats 27, which are not connected at their lower ends with the side pieces of the back in order to form the said yieldable lower portion for the same. The downward swinging of the back 4 carries the arms 32 downward below the plane of the upper face of the seat so that they will be out of the way. The front section is then arranged in a horizontal position to form the front portion of the cot or couch. When it is desired to fold the chair for packing or storing, the back is swung downward to a horizontal or approximately horizontal position; the front section is folded beneath the seat and the front and rear legs 2 and 3 are folded at the sides of the seat. The supplemental legs fold within the frame 37 of the section 35, the spaces 60 between the ends of the guard and the sides of the frame 9 permitting its operation and receiving the terminals of the sides of the frame 37. When the parts are thus arranged the chair occupies but a small amount of space.

Having thus fully described my invention,

what I claim as new and desire to secure by Letters Patent, is:—

1. A chair of the class described including a seat, a back hinged to the seat and composed of side bars, longitudinal slats, means for connecting the upper portions of the slats with the side bars, a cross bar connecting the lower portions of the slats and terminating short of the side bars, the lower ends of the slats being free and overlapping and resting upon the seat and supported by the latter when the back is swung downward to a horizontal position.

2. A chair of the class described including a seat comprising a frame, and a rearwardly projecting flange, longitudinal slats supported by the frame and having their rear ends secured to the said flange, a back composed of side bars, and slats connected at their upper portions with the side bars, the lower portions of the slats being free and overlapping and resting upon the rear ends of the slats of the seat when the back is swung downward to an approximately horizontal position.

3. A chair of the class described including a seat having a frame provided with side bars, a guard carried by and depending from the front portion of the seat and having its terminals arranged in spaced relation with the side bars of the said frame, legs supporting the seat, a back connected with the seat, a front having side bars pivoted to the side bars of the frame, said front being foldable beneath the seat and its side bars being arranged in the space between the guard and the side bars of the frame of the seat when folded, and means for supporting the pivoted front in position to form a leg rest.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

BENJ. W. PATTINSON.

Witnesses:

HOMER H. GRAFTON,
CHARLES MEADOR.