March 21, 1933. D. KING 1,902,709

INVALID'S CHAIR

Filed April 9, 1932

Fig. 1.

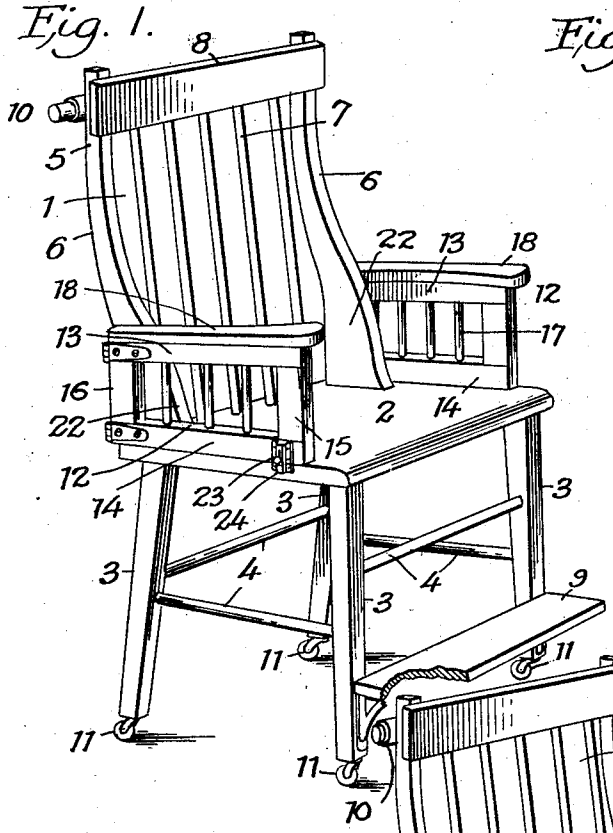


Fig. 3.

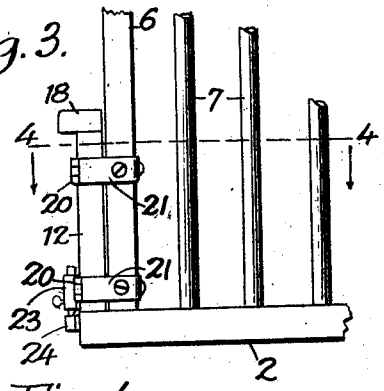


Fig. 4.

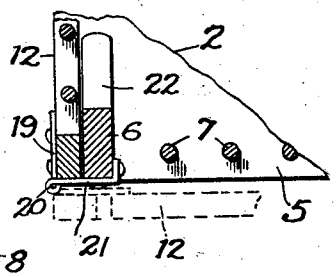


Fig. 2.

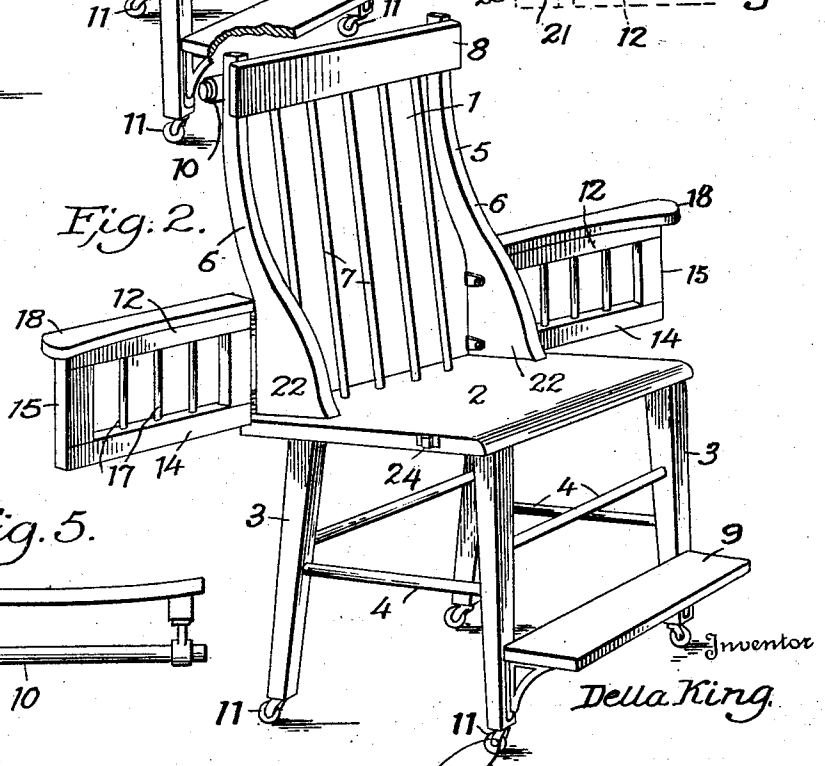


Fig. 5.

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UNITED STATES PATENT OFFICE

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INVALID'S CHAIR

Application filed April 9, 1932. Serial No. 604,302.

This invention relates to improvements in chairs, and particularly to a chair designed for the use and convenience of invalids and sick persons, the main object of the invention being to provide a chair which may be easily rolled from place to place, which provides a comfortable seat and comfortable rest for the feet, back and head and arms of the person or patient, and which embodies arm rests either one or both of which may be moved rearwardly to an out of the way position, so that the sick person or invalid may be moved from a bed or couch on the chair, or vice versa, without interference or obstruction from the arm rests.

A further object of the invention is to provide a chair of the character described having hinged arm rests which are designed to be latched securely in normal position and which may be swung to an inoperative position, whenever desired, in rear of the back of the chair, which position they will retain until positively moved to operative position.

The invention consists of the features of construction, combination and arrangement of parts, hereinafter fully described and claimed, reference being had to the accompanying drawing, in which:—

Fig. 1 is a perspective view of a rolling chair embodying my invention, showing the arm rests in normal position.

Fig. 2 is a view similar to Fig. 1 showing the arm rests moved backward to a partial extent from their normal position.

Fig. 3 is a rear elevation of a portion of the seat and back of the chair and showing one of the arm rests in normal position.

Fig. 4 is a sectional plan view on line 4—4 of Fig. 3.

Fig. 5 is a top plan view of the chair back.

In carrying my invention into practice, I provide a chair 1 of suitable general formation and comprising a seat 2, supporting legs 3, rungs 4 connecting and bracing the legs, and a back 5 comprising side uprights 6 and intermediate uprights 7, suitably fastened at their lower ends to the seat 2 and connected at their upper ends by a cross bar 8. The back 5 and its bar 8 are of suitable formation and height to provide comfortable back and head rest portions for the occupant of the chair. The front legs of the chair have attached thereto a foot rest 9, of broad, comfortable type, arranged at a suitable elevation and which may be adjustable or fixed, as desired, and to the upper rear portion of the seat back 5 is applied a handle bar 10 whereby the chair may be easily and conveniently rolled and otherwise manipulated by an operator or attendant. The lower ends of the legs 3 are provided with suitable roller supports 11 which may be of caster wheel type, as shown in the present instance, or of ball-bearing roller type, so that the chair may be easily and universally drawn or pushed from place to place.

The chair is also provided at each side with an arm rest 12 which, in accordance with my invention, may be of suitable height and of a length to extend substantially the full or a greater part of the distance between the uprights 6 and the forward edge of the seat 2, so that such arm rests, when in operative position, will provide firm and substantial arm rests or supports. Each of these rests, as shown, comprises top and bottom longitudinal bars 13 and 14, front and rear end bars 15 and 16, rungs 17 connecting the bars 13 and 14, and arm supports 18 which may be or not of upholstered type. Each arm rest is hinged at its rear edge to the adjacent upright 6 to swing rearwardly from a normal vertical operative position, as shown in Fig. 1, rearwardly to a folded position transversely of and at the rear of the seat back 5 and parallel therewith as shown in dotted lines in Fig. 4. To this end, each arm rest 18 is provided upon each of its bars 13 and 14 with a hinge leaf 19, extending longitudinally thereof or parallel therewith and pivotally connected, as at 20, by a pivot pin or pintel to a hinge member 21 fixed to the adjacent back upright 6 and projecting transversely of and laterally beyond the upright. The uprights 7 have enlarged or widened lower ends 22 spaced inwardly from the adjacent side edge of the seat 2 to permit the arm rests when disposed in normal position to rest securely on the seat, the widened

lower end of the upright 6 providing a strengthened support and abutment for the arm rest to which the latter is hinged and which forms a stop which braces the arm rest firmly against inward movement. Each arm rest is provided at its forward end with a spring-actuated snap latch or bolt 23 to automatically interlock with a keeper 24 on the seat 2 when said arm rest is moved into operative position, thereby locking the arm rest against casual outward movement.

It will be observed that the ends of the hinge members 21 extending outward laterally from the upright 6 are of sufficient length to adapt the seat backs to swing forwardly to an operative position parallel with and in abutting contact with the said stop portions 22 of the uprights, and to swing from such position rearwardly to the dotted line position 12 in rear of the seat back 5, to which either or both of the arm rests may be swung, thus providing for the positioning of the arm rests in working position so as to be strongly supported by the chair seat and back or to be moved rearwardly to a position in which they are entirely out of the way and the seat 2 at the sides of the chair left open or without obstruction at the sides, so that the chair may be brought alongside a couch or bed and a person or patient moved easily and comfortably laterally from the bed to the chair or from the chair to the bed, as will be readily understood. The hinge members 19 and 21 may be united at their hinged connection 20 in such manner that a sufficient amount of friction or binding pressure between the hinge leaf will be caused to prevent the freed arm rests from swinging loosely and to adapt them to maintain their folded back position until positively moved forward again to operative position.

From the foregoing description, taken in connection with the drawing, the construction, mode of use and advantages of my novel and improved convalescent's or invalid's chair will be readily understood, and it will be seen that a chair of this character is provided which is simple of construction, designed to form a comfortable support for the body and limbs of the patient, to permit the patient to be easily drawn or rolled from place to place, and which allows the patient to be transferred from the chair to a bed or couch or from a bed or couch to the chair without great exertion either to the patient or nurse or other attendant or possibility of injury to the patient. While the structure disclosed is preferred, it will, of course, be understood that changes in the form, arrangement and details of construction of the parts may be made within the scope of the appended claims, without departing from the spirit or sacrificing any of the advantages of the invention.

What I claim is:—

1. A chair having a seat, a seat back including side members set inward from the side edges of the seat and forming stops, side arms hinged on fixed pivots to swing to a forward operative position above and at the sides of the seat and against said stops and to a rearward inoperative position behind the seat back, and a latch for fixing each side arm in its operative position to the seat.

2. A chair having a seat, a seat back having portions forming stops, side arms hinged on fixed pivots to the seat back to swing to a forward operative position above and at the sides of the seat and against said stops and to a rearward inoperative position behind the seat back, a keeper on the seat at each side of the chair, and a spring-actuated latch on the free end of each side arm to engage and interlock with the keeper at its side of the seat.

3. A chair having a seat, a seat back provided with side uprights having widened lower ends forming stops secured to the seat and spaced inwardly from the side edges of the latter, side arms hinged on fixed pivots to said side uprights to swing to a forward operative position above the sides of the seat and against said stops and to a rearward inoperative position behind the seat back, and a latch for fixing each side arm in its operative position to the seat.

4. A chair having a seat, a seat back provided with side uprights having widened lower ends forming stops secured to the seat and spaced inwardly from the side edges of the latter, side arms hinged on fixed pivots to said side uprights to swing in a forward operative position above the sides of the seat and against said stops and to a rearward inoperative position behind the seat back, a keeper on the seat at each side of the chair, and a spring-actuated latch on the free end of each side arm to engage and interlock with the keeper at its side of the seat.

In testimony whereof I affix my signature.

DELLA KING.