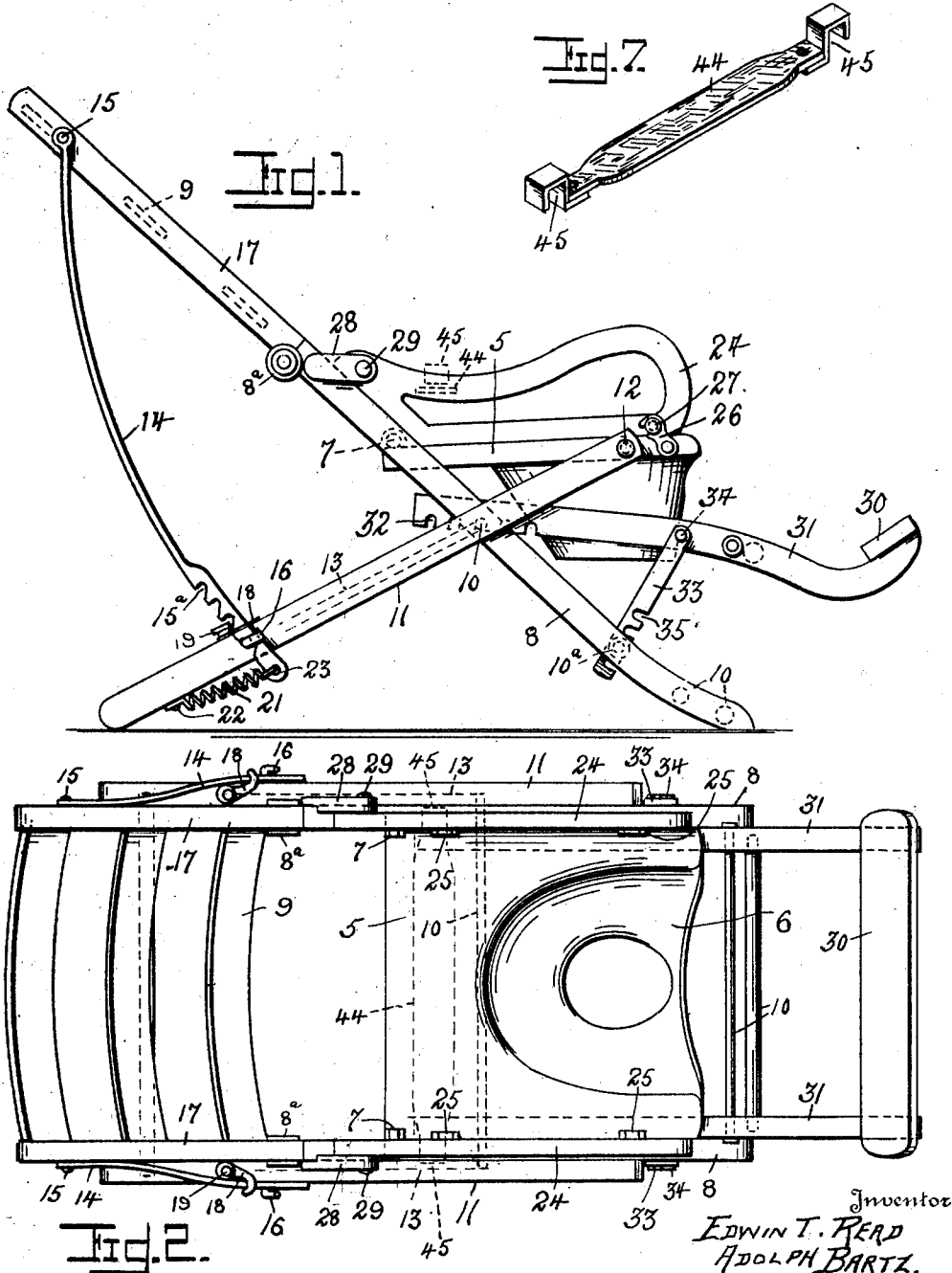


E. T. READ AND A. J. BARTZ.
MATERNITY AND INVALID CHAIR.
APPLICATION FILED JULY 12, 1920.

1,372,546.

Patented Mar. 22, 1921.

2 SHEETS—SHEET 1.



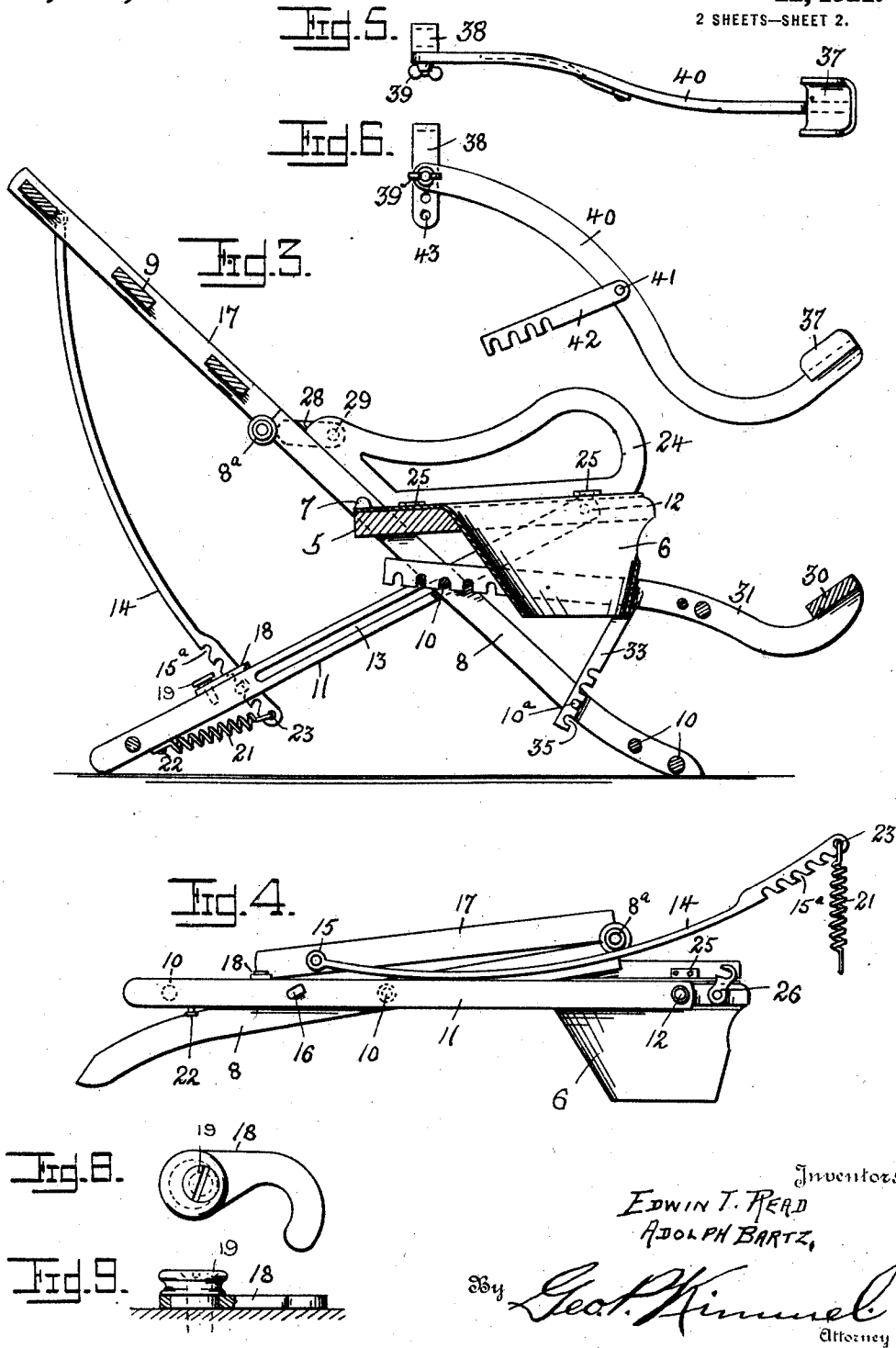
Inventor
EDWIN T. READ
ADOLPH BARTZ.
By *Geo. P. Kimmel*
Attorney

E. T. READ AND A. J. BARTZ.
MATERNITY AND INVALID CHAIR.
APPLICATION FILED JULY 12, 1920.

1,372,546.

Patented Mar. 22, 1921.

2 SHEETS—SHEET 2.



Inventors
EDWIN T. READ
ADOLPH BARTZ,

By *Geo. P. Kimmel*
Attorney

UNITED STATES PATENT OFFICE.

EDWIN T. READ AND ADOLPH J. BARTZ, OF KELLER, TEXAS.

MATERNITY AND INVALID CHAIR.

1,372,546.

Specification of Letters Patent.

Patented Mar. 22, 1921.

Application filed July 12, 1920. Serial No. 395,496.

To all whom it may concern:

Be it known that we, EDWIN T. READ and ADOLPH J. BARTZ, citizens of the United States, residing at Keller, in the county of Tarrant and State of Texas, have invented certain new and useful Improvements in Maternity and Invalid Chairs, of which the following is a specification.

This invention relates to improvements in chairs of the foldable type and has for its object to provide a chair wherein the parts are capable of such wide range of adjustment as to particularly adapt it to the use of invalids.

Another object is to provide a chair which, in addition to its capability of adjustment and consequent comfort to the occupant, may also be very compactly folded for convenience in transportation and storage.

A still further object is the provision of a chair embodying the above mentioned desirable characteristics which shall be of simple construction and consequently economical in manufacture.

With these and other objects in view, the invention consists in certain novel features of construction as hereinafter shown and described and then specifically pointed out in the claims, and in the drawings illustrative of the preferred embodiment of the invention.

Figure 1 represents a side elevation of the improved chair set up in operative position.

Fig. 2 represents a top plan view thereof.

Fig. 3 represents a vertical longitudinal sectional view through the chair.

Fig. 4 represents a side elevation of the chair in collapsed folded condition.

Figs. 5 and 6 represent top plan and side elevational views, respectively, of a modified type of foot rest designed for use in connection with the chair.

Fig. 7 represents a perspective view of a supplemental back rest.

Figs. 8 and 9 represent top and side views respectively of the brace rod adjusting device.

Referring to the drawing in detail, wherein similar reference numerals designate corresponding parts throughout the several views, the numeral 5 indicates the chair seat which consists essentially of a rigid substantially U-shaped portion in which is arranged and supported a depending spout or outlet 6. The rear or web portion of the rigid part of the seat is provided with lat-

erally projecting pivot pins 7 which are mounted in the opposed and forwardly extending front legs 8 which latter are formed in sections hingedly connected together by hinge joints 8^a for convenience and compactness in folding the chair structure, as will hereinafter appear. The portion of the sectional legs which project above the seat constitute the back of the chair and these portions above the hinge joints 8^a are connected by the back rests 9 whereas the portions of the front supporting legs 8 below the pivotal mounting 7 for the seat are connected by an adequate number of connecting rods or braces 10.

The rear supporting legs 11 are arranged against the inner surfaces of the front legs 8 and, when the chair is set up for use the front and rear legs are disposed in downwardly diverging relation. The upper forward extremities of the rear legs which cross the front legs 8 are pivotally connected at 12 to the sides of the seat 5. The terminals of the uppermost connecting rod or brace are extended beyond the side faces of the front legs 8 and are slidably mounted in longitudinal slots 13 formed in the medial portions of the rear legs 11 whereby the movement of the latter is guided during relative adjustment of the front and rear legs.

Adjustable bracing arms 14 are pivotally secured at 15 to the upper extremities of the upper leg sections 8 which, as will be understood, constitute the back of the chair, and the lower extremities of the arms are provided with a series of downwardly directed teeth 15 which coact with hooks 16 projecting laterally from the lower portions of the rear legs 11 whereby to maintain the adjustable back 17 in adjusted position. Retaining hooks 18 are pivotally secured at 19 to the upper edges of the rear legs 11 and the shanks 20 of the pivots are arranged eccentrically with relation to the head portions thereof on which the hooks are mounted whereby the latter are moved longitudinally during rotation of the pivot pins to cause the toothed portions of the arms 14 to be reliably maintained in engagement with the hooks 16.

Springs 21 are detachably connected at 22 to the lower extremities of the rear legs and permanently attached at 23 in the apertured lower extremities of the arms whereby the latter are resiliently maintained in engagement with the hooks 16. The rear

extremities of the springs are detachably connected with the pins 22 for convenience in folding the parts of the chair into collapsed condition.

5 Arm rests 24 of an approved design are rigidly secured at 25 to the opposed side edges of the seat 5 and are maintained in upright operative position by hooks 26 pivotally secured to the side portions of the
10 seat and engageable with headed pins 27 secured to the sides of the arm rests 24. The hooks 26 are assisted in maintaining the arm rests in operative position by pivoted retaining members 28 hingedly secured at 29
15 to the rear portions of the arm rests and engageable with the upper extremities of the front legs 8.

An adjustable foot rest designated generally by the numeral 30 is arranged forwardly of and below the seat 5 and consists of rearwardly extending supporting members 31 having a series of spaced notches 32 therein selectively engageable with the uppermost brace or connecting rod 10 of the
20 front legs 8 whereby the position of the foot rest 30, forwardly with relation to the seat 5, may be varied according to the requirements of the occupant of the chair. The elevation of the foot rest may be varied as desired by proper adjustment of the supporting arms 33 which are pivotally secured at
25 34 to the supporting rods or members 31 and are notched as indicated at 35 for engagement with the pins 10^a carried by the front legs 8.

A modified type of foot rest especially adapted for use in maternity cases is illustrated in detail in Figs. 5 and 6 and, when used, is designed to replace the foot rest 30 and supporting members therefor which latter may be conveniently detached from the chair structure when required. A pair of the
30 foot rests 37 is provided and each consists in a substantially hook-shaped arm engaging member 38 which is adapted to embrace the upper portion of one of the arm rests 24 of the chair and is pivotally and adjustably attached by means of a bolt and wing nut
35 39 with the forwardly extending and curved supporting member 40 which carries the foot rest 37 at its front extremity. The medial portion of each supporting member 40 is pivotally connected at 41 with a notched supporting arm 42 adapted for adjustable engagement with one of the braces 10 of the chair structure for supporting the foot rest at the desired elevation. As suggested in
40 Fig. 6, the depending portion of the arm engaging member 38 for each foot rest 37 is preferably provided with a series of vertically aligned apertures 43 permitting vertical adjustment of the bolt 39 whereby a wide range of adjustment of the foot rest is afforded.

45 A supplemental back rest 44 of leather or

like flexible material is provided at its terminals with hooks 45 adapted to embrace the upper edged portions of the arm rests 24 for maintaining the strap in adjusted position thereon.

70 During use of the improved chair, the same affords a comfortable support for the occupant and due to the wide range of adjustment of which the back 17 and foot rest are capable the positions thereof may be conveniently varied to support the body of the occupant in various inclined positions and the seat at a comfortable or required elevation. When not in use the chair may be compactly folded as suggested in Fig. 4 and in
75 carrying out this operation the arm rests 24 are first folded against the seat 5, subsequent to moving the retaining members 26 and 28 to inoperative position. The rear terminals of the springs 21 are subsequently
80 detached from the pins 22 and the arms are disengaged from the hooks 16 then, the foot rest having been detached from the brace 10 or arm rests 24, according to the type of foot rest in use, the lower extremities of the front
85 and rear legs 8 and 11, respectively, are moved together, said legs swinging upon the pivots 7 and 12 and the terminals of the uppermost brace 10 sliding longitudinally within the slots 13 until the back has assumed
90 the compact relation disclosed in Fig. 4.

What we claim is:

1. A foldable chair structure including supporting legs, a seat secured to the legs, a back rest hingedly connected with certain
95 of the legs, toothed supporting arms pivotally connected with the back rest, means carried by other of said legs for coaction with the teeth of the arms for supporting the back rest in adjusted position, detachable means normally maintaining the
100 toothed portions of the arms in engagement with the last mentioned means, and means for drawing and positively locking the toothed portions of the arms into engagement with the last mentioned means.

2. A chair structure including supporting legs, a seat supported thereon, braces connecting certain of the legs, one of the braces providing a pivotal and slidable connection
105 between the legs, notched supporting bars engageable with the last mentioned brace, a foot rest carried by the front extremities of the bars, and notched supporting arms connected with the bars and engageable with certain of the legs for adjustably supporting the foot rest at various elevations.

3. A foldable chair structure including supporting legs, a seat secured to the legs, a back rest hingedly connected with certain
110 of the legs, toothed supporting arms pivotally connected with the back rest, means carried by other of said legs for coaction with the teeth of the arms for supporting the back rest in various reclining positions, 130

spring means normally tending to move the toothed portions of the supporting arms in engagement with the first mentioned means, and means detachably connecting the last 5 mentioned means with certain of the legs whereby the terminals of the last mentioned means may be disengaged incident to folding of the chair.

4. A foldable chair structure including 10 supporting legs, a seat secured to said legs, a back rest hingedly connected with certain of the legs, toothed supporting arms pivotally connected with the back rest, hooks carried by other of said legs for coaction with 15 the teeth of the arms for supporting the back rest in adjusted position, spring means nor-

mally retaining the toothed portions of the arms in engagement with said hooks, a detachable connection between the terminals of the spring means and the last mentioned legs 20 permitting the spring means to be disengaged therefrom incident to folding of the chair, pivoted hooks engageable with the toothed portions of the arms, and means co- 25 acting with said pivoted hooks for actuating the latter to lock the toothed portions of the arms in engagement with the first mentioned hooks.

In testimony whereof, we affix our signatures hereto.

EDWIN T. READ.
ADOLPH J. BARTZ.