J. T. HAY.

POCKET TELESCOPING CHAIR.

APPLICATION FILED MAR. 28, 1910.

1,035,824.

Patented Aug. 13, 1912.

2 SHEETS—SHEET 1.

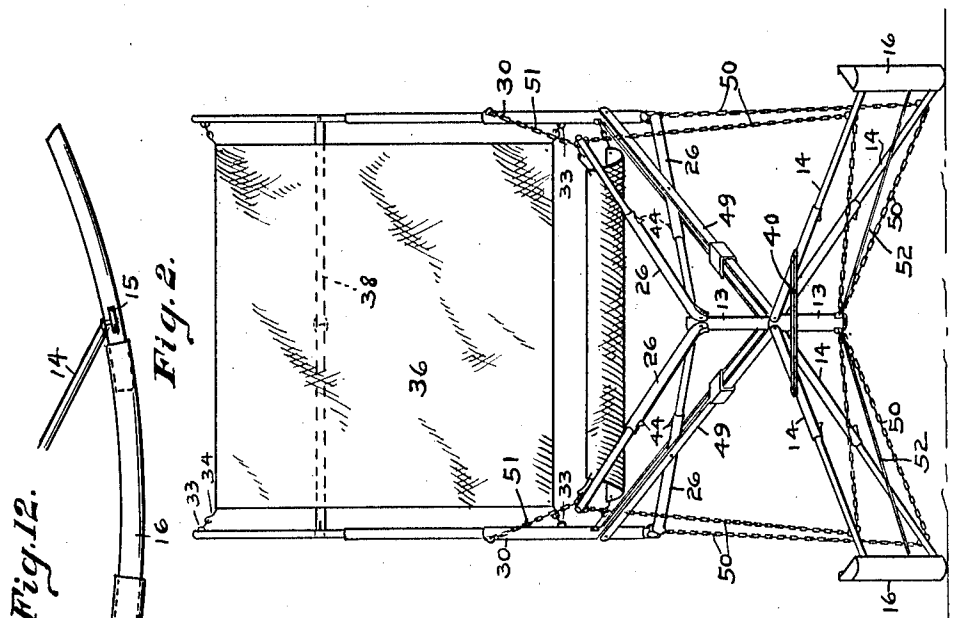

Fig. 2.

Fig. 12.

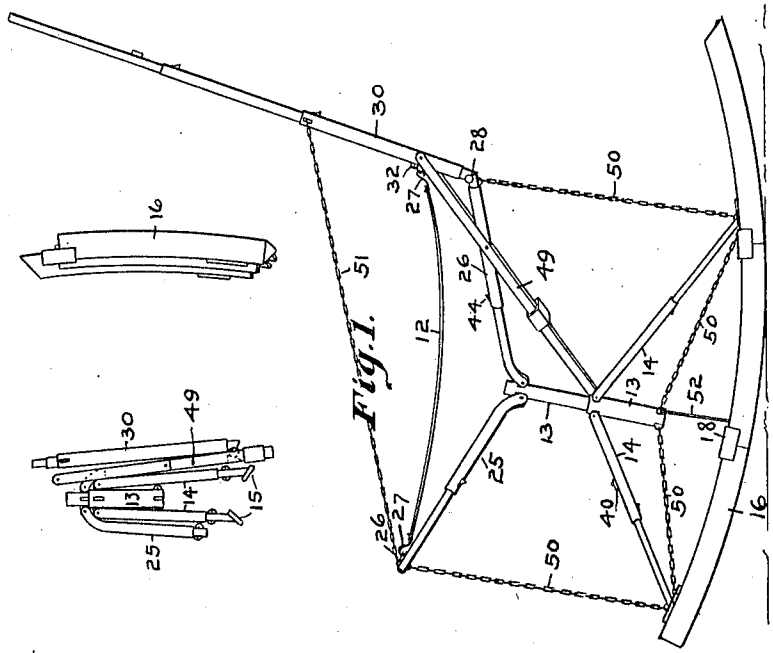

Fig. 1.

Fig. 11.

Fig. 10.

WITNESSES.

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2 SHEETS—SHEET 2.

Fig. 4.

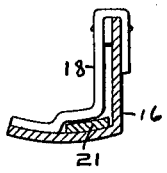


Fig. 5.

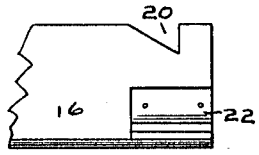


Fig. 6.

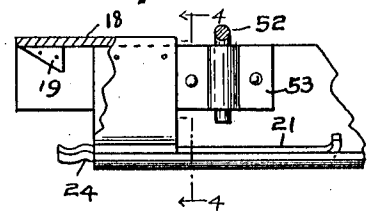


Fig. 7.

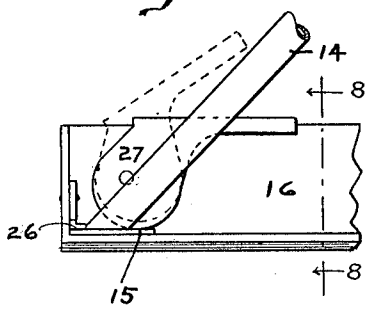


Fig. 8.

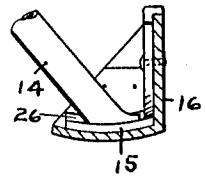


Fig. 9.

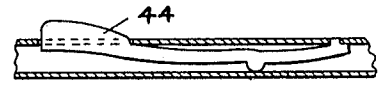
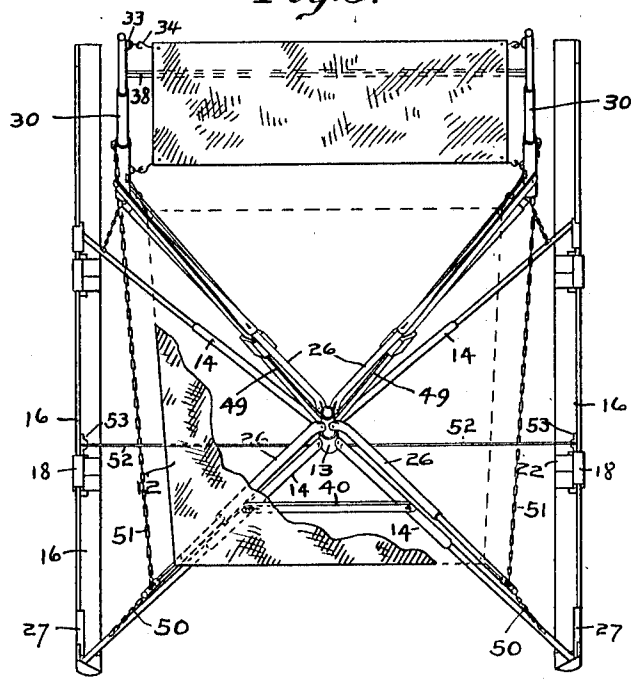


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN T. HAY, OF DARKE COUNTY, OHIO.

POCKET TELESCOPING CHAIR.

1,035,824. Specification of Letters Patent. Patented Aug. 13, 1912.

Application filed March 28, 1910. Serial No. 552,115.

To all whom it may concern:

Be it known that I, JOHN T. HAY, a citizen of the United States, residing near Union City, in the county of Darke and State of Ohio, have invented certain new and useful Improvements in Pocket Telescoping Chairs, of which the following is a specification.

This invention relates to improvements in chairs in which the frame members thereof are in a plurality of telescoping parts whereby the chair when not in use may be reduced to a small package for greater convenience in transportation and storage; the purpose being to provide a chair which can be condensed into a package small enough to be carried in a coat pocket.

I accomplish the objects of my invention by the means illustrated in the accompanying drawings, in which—

Figure 1 is a view in side elevation of my invention drawn out and ready for use as a chair. Fig. 2 is a front elevation of same. Fig. 3 is a top plan view of same showing the chair bottom broken away in part to illustrate the underlying parts. Fig. 4 is a vertical section through the chair rocker on the line 4—4 of Fig. 6. Figs. 5 and 6 are views from the inside of the rocker at one of the transverse joints in said rocker and showing the divided ends separated from each other, parts in Fig. 6 being broken away to show the inner construction. Fig. 7 is a detail in side elevation of a rocker and a diagonal support of the chair, showing the manner in which the diagonal support is removably secured to the rocker. Fig. 8 is a section on the line 8—8 of Fig. 7. Fig. 9 is a longitudinal section of one of the telescoping tubes showing the device therein for holding the tubes in their elongated or outer positions. Fig. 10 shows the frame work of the chair in its telescoped and folded form. Fig. 11 shows the rockers of the chair as removed and folded, and Fig. 12 represents a modification in which the rocker is of tubular telescoping sections.

Like characters of reference indicate like parts throughout the several views of the drawings.

12 is the chair seat, preferably of canvas or other flexible material which is supported by means of a suitable frame, the major portion of which is grouped around and pivotally connected with a central and approximately vertical pillar or post 13. This post 13 is located approximately under the center of the seat 12 and is sufficiently below the seat and above the floor to prevent interference by the ends of the post with either seat or floor. The post 13 will preferably be tubular in construction and in two telescoping parts. To the lower of these parts the ends of four diagonally radiating legs 14 are pivotally secured by any suitable means to provide a hinged connection between the post and said legs 14. The legs 14 are preferably in two telescoping parts or sections whereby the lengths of the said legs may be shortened when the chair is not in use. The lower ends of the legs 14 are provided with shoes 15 rigidly secured thereto. The shoes 15 provide a broader bearing surface for the support of the chair when the latter is used without rockers, and it also affords a means for the attachment of the legs to the rockers. The rockers shown at 16 comprise, in the main, an angle bar one member of which is vertical and the other member of which forms the bearing for the chair on ground or floor and will preferably be rounded in cross section to enable the rocking movement of the chair to displace small obstructions which will be rolled out of the path of the rocker by the above shape, in the usual way. These rockers are preferably in a plurality of transversely divided pieces, each of which is connected by means of a sleeve-plate 18 enveloping the upper edges of the two ends of the rocker to be joined and shaped like an inverted U to embrace the upper portions of both of said ends. This U-shaped plate has an inside lug 19 to enter a corresponding notch 20 in the opposite member of the rocker and the plate 18 is continued down to the curved base of the rocker to retain a sliding plate 21. The plate 21 is adapted to be moved longitudinally from the position shown in Fig. 6 under a plate 22 secured to the opposite or notched end of the rocker and the slide 21 is kinked at its end 24 to form a lock to prevent the too easy withdrawal of the slide 21.

The rocker is provided with a flange 26 to overlap an end of the shoe 15 when the latter is placed on the rocker and the removal of the shoe is prevented by a cam-

lever 27 which is pivoted to the vertical member of the rocker and is adapted to be brought into engagement with the shoe in the manner shown in Figs. 7 and 8.

Pivotally secured to the post 13 near the upper end of the latter are the diagonal supports 25 extending to each of the front corners of the chair seat 12. The supports 25 are in two telescoping sections, the outer sections are provided with rings 26 to receive the hooks 27 from the seat 12 for the removable attachment of the seat thereto. Pivotally secured to the post 13 at its rear near the top are the diagonal supports 26 which are connected by prop-joints 28 with the lower ends of the side frames 30 of the back of the chair. The supports 26 are in two telescoping parts as shown and the back members 30 are in three telescoping parts as shown. The lower part of the back member 30 is provided with the loops 32 for the removable attachment thereto of the hooks 27 at the rear corners of the seat 12. The back frames 30 are also provided with upper and lower loops 33 for the removable attachment of hooks 34 at the corners of the flexible material 36 of canvas or the like, which is used to fill in and complete the back between said posts 30. A spanner or brace 38 is used to spread the posts 30 and brace them. This spanner is in two jointed sections and will be removable at one or both ends by any suitable means for greater convenience in folding the chair frame. The front legs 14 are braced and stiffened by the horizontal brace-bar 40 which is pivoted to one leg and detachable from the other by any suitable means for convenience in collapsing the chair.

In order to lock the telescoping sections I provide the spring-acting lock-plate 44 in the interior of one of the tubular members with a projecting portion as shown in Fig. 9 to act as a stop to prevent accidental longitudinal movement of said telescoping parts. Flexible ties 50, here shown as chains, extend from each of the four shoes 15 to the end of the diagonal brace 25 or 26 above said shoes, and additional flexible ties are extended from said shoes, diagonally, to the lower end of the post 13.

The chair back and back of the chair seat are braced and strengthened by means of diagonal braces 49, the upper end of which is removably secured to the member 30 of the chair back and the lower end of which bears against the post 13 and legs 14. This diagonal brace 49 is in two telescoping parts, the upper part of which is pivotally secured to the rear members 26 of the chair frame.

The rockers 16 are kept from turning laterally by rods 52 hinged at their inner ends to post 13 and having their outer ends bent to form hooks which are slipped into sockets 53 on the inner sides of the vertical members of the rocker. The back of the chair may be braced, if required, by the tie 51 extending from the outer ends of supports 25 to the posts 30.

In Fig. 12 I have shown a modified form of rocker comprising a plurality of telescoping tubular sections which have transverse springs at proper places where the leg supports 14 are to be attached, for the reception of shoes 15. The latter are made of sufficient dimensions and shape to permit them to be passed through the rockers, through said transverse springs, and withdrawal is prevented by the vertical pins as shown.

When it is desired to reduce the size of my improved chair for storage or transportation the seat 12 and back 36 are removed and also the rockers 16 are removed and then the several parts above described are telescoped and folded together at their hinged joints, and the post 13 is also telescoped thereby reducing the bulk of the chair frame to that shown in Fig. 10. The rockers are separated into several parts which are folded as shown in Fig. 11.

Having thus fully described my invention what I claim as new and wish to secure by Letters Patent of the United States, is—

1. In a collapsible chair, a seat, a post under the seat in upper and lower telescoping sections and oblique seat and post supports hinged to different sections of the post, each of said supports being in a plurality of telescoping sections and automatic locks to prevent the accidental telescoping of the sections.

2. In a collapsible chair, a seat, a plurality of oblique supports for the seat each in a plurality of telescoping sections for compacting the chair, curved shoes on the lower ends of the bottom ones of said supports, and telescoping rockers removably secured to said shoes, and cam locks on said rockers with beveled edges to engage the curved shoes.

3. In a collapsible chair, a seat, a post under the seat in a plurality of telescoping sections, downwardly oblique foot supports hinged at their upper ends to the lower section of the post and having shoes at their lower ends, telescoping rockers, means for removably securing the shoes for said foot supports to the rockers, upwardly oblique seat supports hinged at their lower ends to the top section of the post, all of said oblique supports being in a plurality of telescoping sections to permit the compacting of said supports, means to prevent accidental folding of the sections and automatic means for locking the sections to prevent accidental telescoping.

4. In a collapsible chair, a seat, a post under the seat in telescoping sections, ob-

lique seat supports hinged to the top section of the post, back supports hinged to the back seat supports, diagonal braces hinged to the lower post section and to the back supports and oblique foot supports hinged to the lower section of the post.

In witness whereof, I have hereunto set my hand and seal at Indianapolis, Indiana, this, 9th day of February, A. D. one thousand nine hundred and ten.

JOHN T. HAY. [L. S.]

Witnesses:
F. W. WOERNER,
L. B. WOERNER.