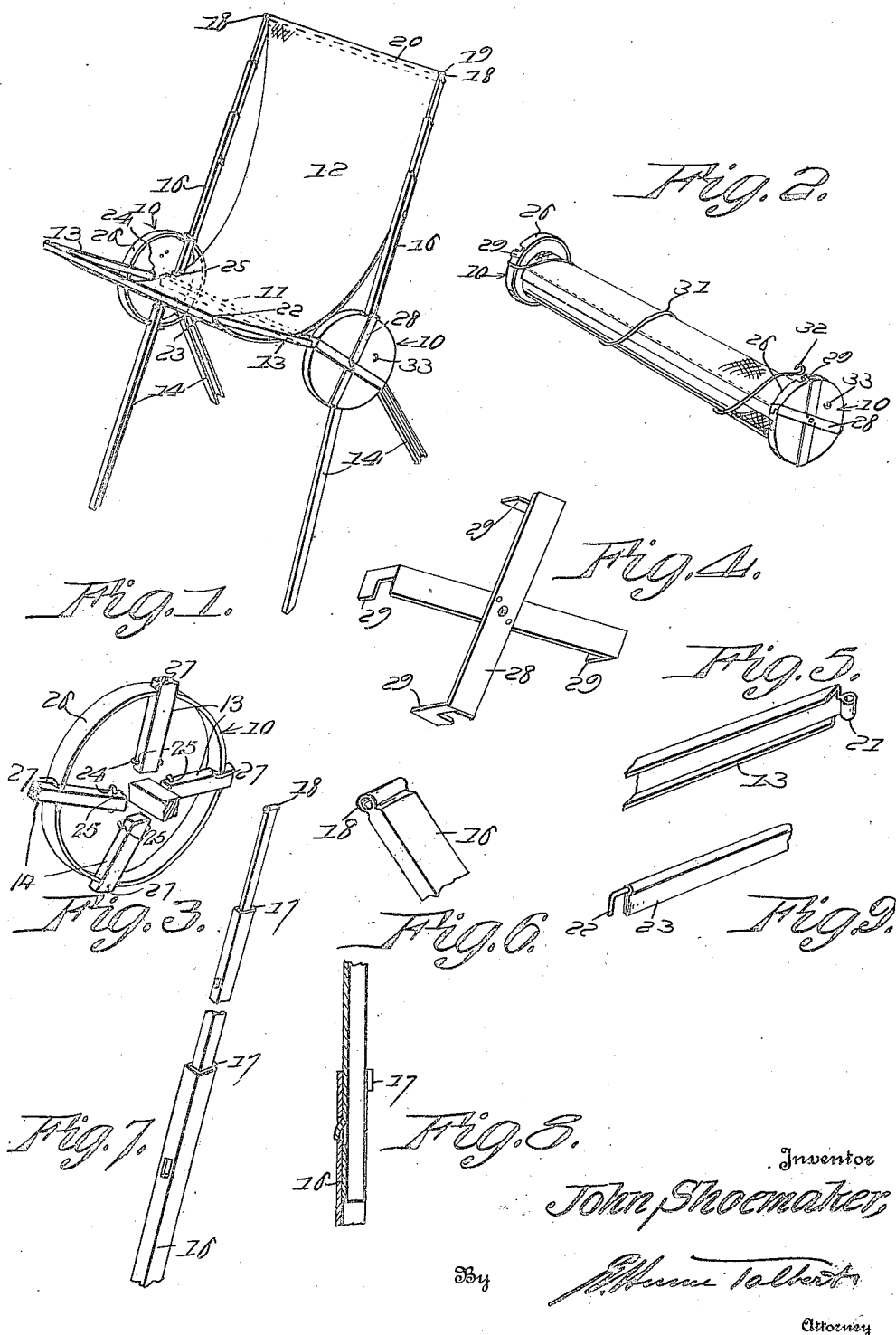


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J. SHOEMAKER.
FOLDING CHAIR.
FILED AUG. 11, 1921.



UNITED STATES PATENT OFFICE.

JOHN SHOEMAKER, OF ALPHA, MICHIGAN.

FOLDING CHAIR.

Application filed August 11, 1921. Serial No. 491,431.

To all whom it may concern:

Be it known that JOHN SHOEMAKER, a citizen of the United States of America, residing at Alpha, in the county of Iron and State of Michigan, has invented new and useful Improvements in Folding Chairs, of which the following is a specification.

The object of the invention is to provide a folding chair of the lawn or camp chair type which can be folded into a much more compact form than those heretofore constructed to produce a substantially cylindrical bundle of a length not exceeding the width of the chair and a diameter of not to exceed three or four inches to the end that it may readily be carried in a grip or suitcase; and with this object in view the invention consists in a construction and combination of parts of which a preferred embodiment is shown in the accompanying drawings, wherein:—

Figure 1 is a view of the chair in its normal or operative condition.

Figure 2 is a view of the same when folded.

Figure 3 is a detail view of one of the heads of the drum showing the associated radial folding members.

Figure 4 is a similar view of one of the locking spiders.

Figure 5 is a view of the outer end of one of the seat bars.

Figure 6 is a similar view of the outer or upper end of one of the back bars.

Figure 7 is a similar view of one of the back bars.

Figure 8 is a longitudinal detail sectional view showing one of the telescoping joints comprised in the back bars.

Figure 9 is a detail view of one of the extremities of the transverse seat bar.

The device consists essentially of a drum having terminal heads 10 of complemental construction connected by a core 11 which may as illustrated consist of a reasonably stout bar of wood or metal connecting the centers of the heads and forming the axis of the drum; and a plurality of radial elements hingedly or pivotally mounted upon the heads at the inner surfaces thereof and adapted for extension radially of the heads or of arrangement parallel with the core and between the heads; supplemented by means for holding the radial elements in their adjusted positions and a flexible apron

forming a seat and back apron 12 supported by the frame.

In the construction illustrated the radial elements include the forwardly extending seat elements 13 designed to form the side bars of the seat, the leg elements 14 which incline respectively forwardly and rearwardly from the heads to form the supports for the drum, and the back elements 16 which extend upwardly and rearwardly from the heads of the drum to form the side bars of the back, said back elements being of extensible construction, each comprising a plurality of relatively adjustable sections, so as to afford the necessary length thereof to hold the upper end of the apron 12 in the proper position. The sections of the back elements are shown in the drawing as being telescoped with suitable guide ears or clips 17 for maintaining them in alignment, and at the free ends of the uppermost sections thereof are provided eyes 18 for the reception of pins 19 on the extremities of the back cross bar 20 threaded in a suitable transverse pocket in the upper end of the apron or web 12.

The free ends of the seat elements are correspondingly provided with eyes or sockets 21 for the reception of pins 22 on the extremities of the transverse seat bar fitted in a transverse pocket in the lower end of the web or apron.

The inner ends of the several leg, seat and back elements are hinged to the inner surfaces of the heads as for example by means of staples 24 on the latter engaged by eyes 25, and these heads are peripherally flanged inwardly as shown at 26 with the flanges provided with cut away portions or notches forming seats 27 in the planes respectively of the folding elements and adapted to receive the same when extended. Also revolvably mounted upon the heads or disks are locking spiders 28 having catches 29 adapted to be brought into interlocking engagement with the folding elements when the latter are engaged respectively with the seats in the flanges of the heads or disks so as to lock said elements against accidental folding or collapsing.

In reducing the chair of the construction indicated to a folded condition it will be obvious that the apron or web forming the combined seat and back filler should be removed after which the back elements should

be collapsed by the sliding of the upper and intermediate sections thereof into the lower or main sections, after which the spider may be turned to release the elements which in
5 turn may be folded inward between the planes of the heads or disks and parallel with the core, and the apron or web forming the filler may then be wrapped around the core and secured for example by a retaining cord 31 of which the extremities
10 are provided with hooks 32 for engagement with eyes 33 projecting outwardly from the heads or disks.

Having described the invention, what is
15 claimed as new and useful is:—

A folding chair comprising a drum consisting of terminal heads and an interconnecting core, the heads being of complementary construction and provided with
20 turned flanges formed at spaced points around their periphery with notches constituting seats, radial elements hingedly mounted on the head members on the inner

faces thereof adjacent the core and adapted to swing down into parallelism with the
25 latter or into radial position with reference to the heads and in which latter position they engage in the notches, locking spiders pivoted on the exterior faces of the heads
30 and intumed at their extremities to overlap the flanges of the heads, said overlapping extremities being notched to provide catches engaging the radial members when disposed in said seats, the radial members constituting respectively legs and seat and back mem-
35 bers, a flexible apron or web, and stretcher elements passing through pockets formed in the extremities of the apron or web and constituting respectively transverse seat and
40 back bars, the said stretcher elements being engaged respectively with the extremities of the radial elements constituting the seat and back side bars.

In testimony whereof he affixes his signature.

JOHN SHOEMAKER.