

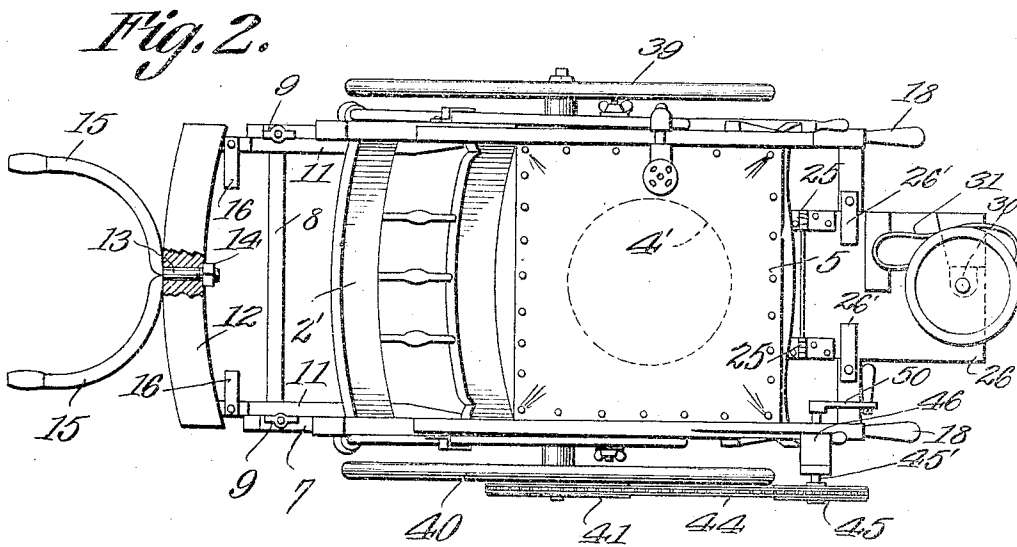
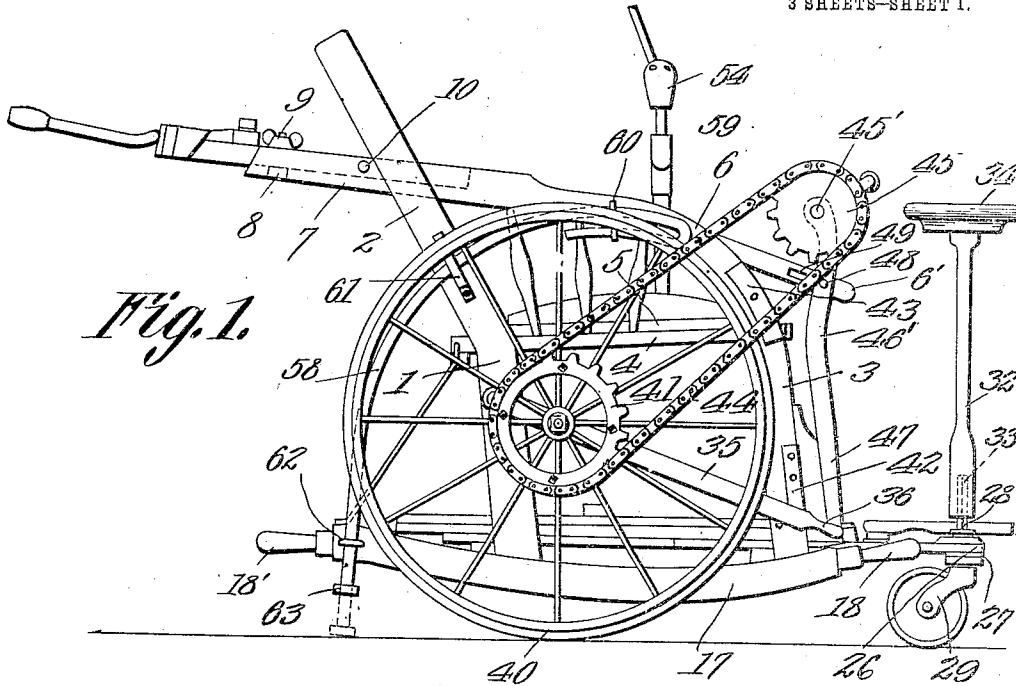
S. O. FRANTZ.
CHAIR.

APPLICATION FILED AUG. 17, 1912.

1,056,328.

Patented Mar. 18, 1913.

3 SHEETS—SHEET 1.



Witnesses
J. B. Woodrow.
L. H. Wilson

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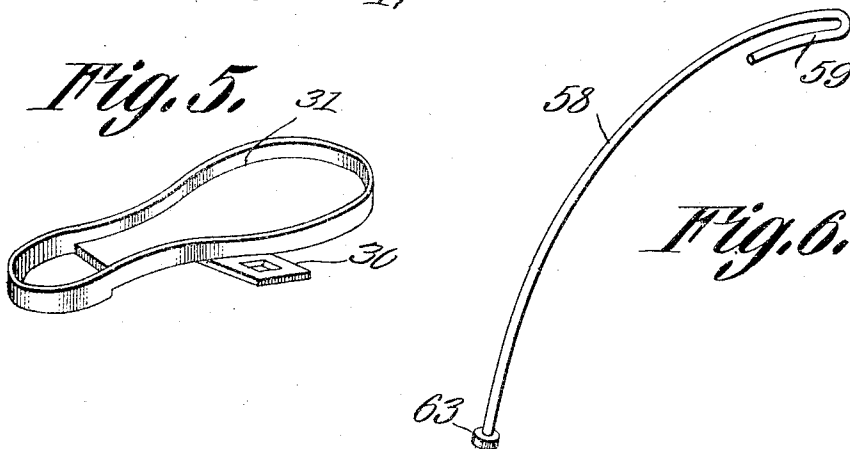
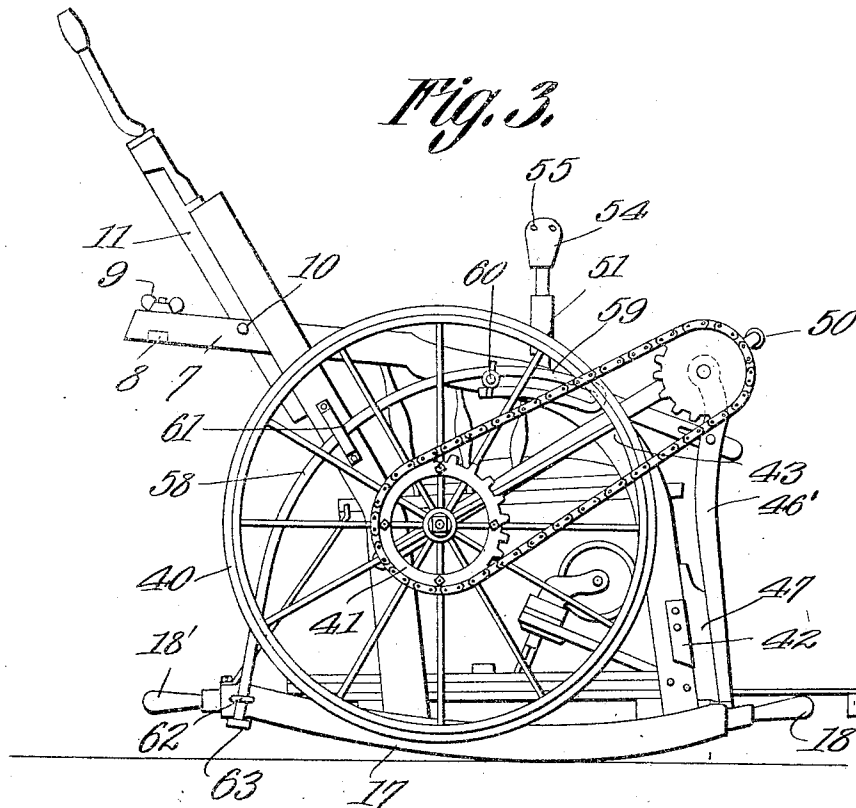
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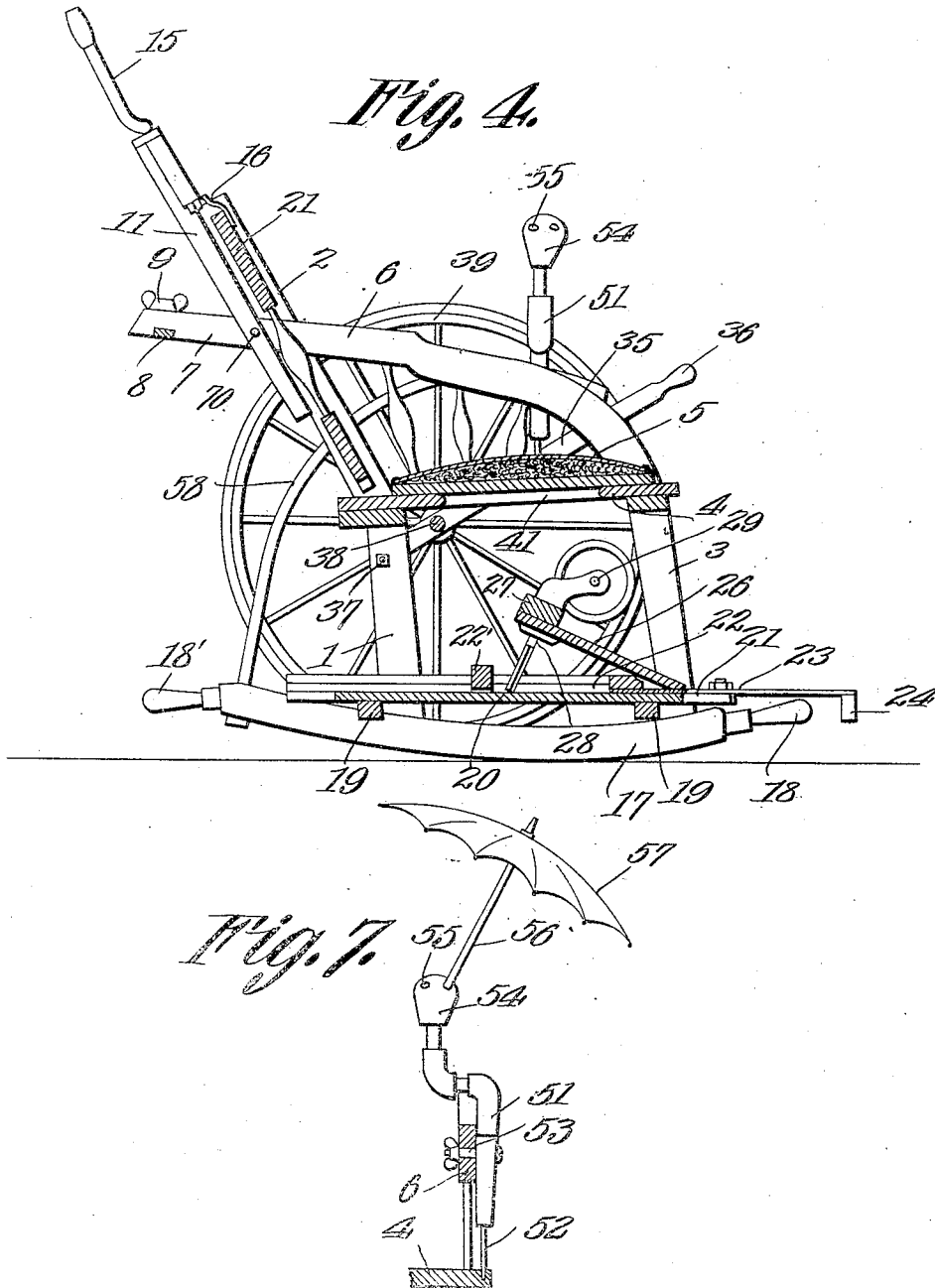
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3 SHEETS—SHEET 3.



Witnesses
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UNITED STATES PATENT OFFICE.

SAMUEL O. FRANTZ, OF CONWAY SPRINGS, KANSAS.

CHAIR.

1,056,328.

Specification of Letters Patent.

Patented Mar. 18, 1913.

Application filed August 17, 1912. Serial No. 715,657.

To all whom it may concern:

Be it known that I, SAMUEL O. FRANTZ, a citizen of the United States, residing at Conway Springs, in the county of Sumner and State of Kansas, have invented a new and useful Chair, of which the following is a specification.

This invention relates to improvements in chairs, the primary object of the invention being the provision of a chair provided with rockers to be readily converted into a perambulating chair, a reclining chair or a rocking chair, the wheels being mounted for movement to and from the surface to place the rockers into engagement or out of engagement therewith, said wheels being locked in either extreme position.

A further object of the present invention is the provision of a novel form of carrying frame, the same being so disposed with relation to the arms of the chair as to form means for pushing the chair when converted into a rolling chair, or to form an extension for the back of the chair when elevated to retain a pillow or other head rest in proper position.

A still further object of the present invention is the provision of means for steering and propelling the chair whereby an invalid, incapacitated by the loss of either hands or feet, may readily propel and guide the same.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings Figure 1 is a side elevation of the complete chair in the position the parts assume when being used as a rolling chair. Fig. 2 is a top plan view thereof. Fig. 3 is a side elevation of the chair when converted into a rocking chair with the pushing frame in the position for receiving a head rest or pillow. Fig. 4 is a longitudinal sectional view of the chair in

the position it assumes as shown in Fig. 3. Fig. 5 is a detail perspective view of the steering foot receptacle detached. Fig. 6 is an enlarged detail view of the means for limiting the rearward inclination of the chair. Fig. 7 is a detail view of the umbrella support with the adjacent portion of the chair in section.

Referring to the drawings, the chair frame consists primarily of the rear legs 1 carrying the inclined back 2, said back 2 being provided with the usual head rest 2', the front legs 3 co-acting with the rear legs 1 to support the seat 4 provided with the removable cushion 5, the seat 4 being provided with the aperture 4' to convert the chair into a commode.

The arms 6 of the chair are inclined from the front of the seat to the back to which they are hinged and carry the rearwardly extending ends 7 which are connected together by means of the cross bar 8, the pivoted buttons 9 being connected to the end 7, the purpose of which will presently appear.

Pivoted to the extended ends 7 of the arms 6 to the rear of the back 2 of the chair at 10 are the two strips 11 which with the cross piece 12 constitutes a frame for providing an auxiliary head rest for the chair or a means whereby the chair may be used as a rolling chair. The cylindrical stem 13 is pivotally mounted to the cross bar 12 and is held thereto by means of the nut 14, so that the guiding handle 15 carried by the stem 13 may be rotated to assume the desired position, so that the hand grip portion may be extended lower or higher according to the desires of the operator. When the frame is in the position as shown in Figs. 1 and 2, the buttons 9 engage the strips 11 and retain the frame relatively to the arms 6, or when the frame is extended to the position as shown in Figs. 3 and 4, the catches 16 engage the top 2' and retain the same as a pillow support or head rest.

The chair is mounted upon the two rockers 17 each one of which is provided with the hand grips 18 and 18' respectively, at the respective ends thereof, so that the chair may be readily lifted as in transporta-

tion in and out of cars, the said rockers being properly spaced with relation to each other by means of the cross bars 19.

Connected to and supported by the cross bars 19 below the seat of the chair is a platform 20 provided with the cut away portion 21 at the forward edge thereof and carrying the two parallel grooved strips 22 and the bridging bar 22'. Mounted upon the platform 20 and having its edges co-acting with the grooved strips 22 so that the frame may be extended or collapsed relatively to the platform 20 is the auxiliary foot rest 23, provided with the hand gripping portion 24, the hand gripping portion 24 when the auxiliary foot rest 23 is collapsed being disposed to engage or be adjacent to the cut away portion 21 of the platform.

Hinges 25 are connected to the forward ends of the platform 20 upon each side of the cut away portions 21 and have connected thereto the steering wheel carrying platform or foot rest 26 which when in proper position is held co-extensive or as a prolongation to the platform 20 by means of the pivoted catches 26'. Connected to the under side near the forward edge of the foot rest 26 is a transverse strip 27 which provides a reinforcing means for the proper journaling of the stem 28 of the steering shaft 29, the upper end of the stem being shouldered for the reception of the apertured lug or plate 30 of the foot receiving member 31, said foot receiving member 31 providing a means whereby the steering shaft 29 may be actuated by the foot of the operator to guide the chair. When it is desired to operate the steering shaft 29 through the medium of a hand device, the stem 32 provided with the shouldered socket 33 is removably attached to the shouldered end of the stem 28 and through the medium of the steering wheel 34 which is in ready access to the party sitting in the chair provides an additional means for connection with the foot receiving member 31, so that the steering shaft 29, may be operated either through the foot or hand as desired.

In order to provide a means whereby the chair may be propelled from place to place, either as a perambulating chair or a wheeled chair, the two arms 35, provided with the hand grip 36, are pivoted at 37 to the rear legs 1 of the chair below the seat thereof, and connected to both of these arms 35 and projecting transversely of the chair and below the seat is a single axle 38, upon whose extending ends are mounted the large wheels 39 and 40. Either one or both of these wheels may be provided with means whereby the same may be rotated, but in the present instance the wheel 40 is provided with a sprocket 41, which may be operated as will presently appear.

In order to lock the arms 35 in either extreme position as clearly shown in Figs. 1 and 3, the cleats 42 and 43 are connected to the respective front legs 3 of the chair, the outer surfaces being inclined to permit of the ready guiding of the respective arms 35 into the respective locked positions without the operator having to pull the arms 35 outwardly during such movement.

A chain 44 connects the sprocket 41 to a smaller sprocket 45 keyed upon the shaft 45' and operated by the hand crank 50. The shaft 45' is journaled in a sleeve 46 mounted in the upper end of the resilient support 46', whose lower end is secured to the block 47 at the base of one of the front legs 3 of the chair. The upper free end of the support 46' is held adjustably and relatively to the chair, so as to hold the chain 44 taut, and also to permit of varying sized gears 45 to be used, by means of the pin and slot connection 48-49 to the forward extension 6' of the arm 6.

In order to provide a means for supporting the sunshade 57, the support 51 carrying the pin 52 and the fastener 53 is provided and is connected to the chair as clearly illustrated in Fig. 7. The head 54 carried by the support 51 is provided with a plurality of sockets 55 for the reception of the staff 56 of the sunshade or umbrella 57.

In order to limit the rearward reclining position of the chair, either when the rockers or the wheels are in contact with the surface, the two curved rods 58 provided with the doubled terminal end 59 are disposed for adjustable and sliding movement to the arm, back and rocker of the chair. The clamp screw 60 engages the end 59 to lock the same against sliding movement, while the straps or cleats 61 and 62 form guides for the rods, so that its buffer end 63 may be positioned relatively to the floor.

What is claimed is:

1. The combination with a perambulating chair having hand operated driven wheels, of a steering mechanism therefor, including a foot platform, a steering wheel, a stud carrying the steering wheel and mounted through the platform to project thereabove, said projected end of the stud being non-circular in cross section, a hand operated steering staff removably connected to the upper end of the stud, and a foot attachment for manipulating the stud connected to the non-circular end thereof between the lower end of the staff and the upper face of the platform.

2. The combination with a perambulating chair, having hand operated driven wheels, of a steering mechanism therefor, including a foot platform hingedly connected to be moved below the seat of the chair and projected forwardly thereof, a stud journaled

within the platform and projected upon
both sides thereof, a steering wheel carried
in the lower end of said stud, a foot steer-
ing attachment operably connected to the
5 opposite end of the stud for movement above
the platform, and a hand steering attach-
ment also connected to the stud.

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

SAMUEL O. FRANTZ.

Witnesses:

RETTA A. GREEN,

GLENN S. FRANTZ.