M. L. HENNING & C. R. WOEBER.

INVALID'S CHAIR.

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1,248,113.

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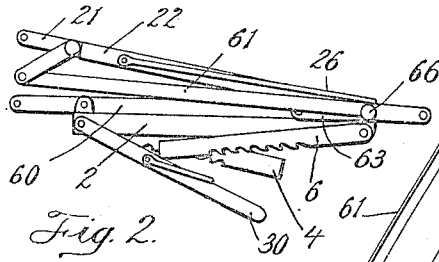


Fig. 2.



Fig. 1.

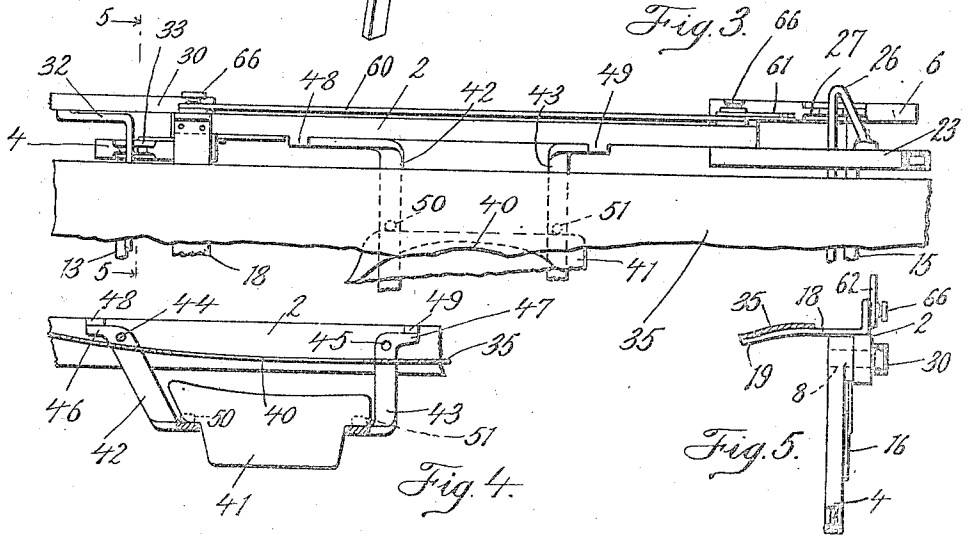


Fig. 3.

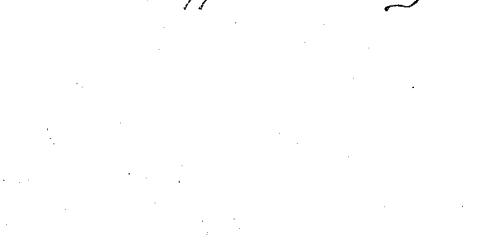


Fig. 4.

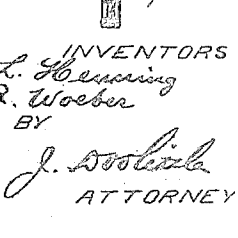


Fig. 5.

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# UNITED STATES PATENT OFFICE.

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## INVALID'S CHAIR.

1,248,113. Specification of Letters Patent. Patented Nov. 27, 1917.

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*To all whom it may concern:*

Be it known that we, MARY L. HENNING and CLARA R. WOEBER, citizens of the United States, and residents of the city of New York, borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Invalids' Chairs, of which the following is a specification.

This invention relates to a chair or seat for infants or invalids and more particularly to a chair arranged to facilitate the operation or exercise of certain of the functions of the body and it has for its object generally to provide a chair of this type adapted to minimize the inconvenience both to the infant or invalid and to the mother or nurse, or other attendant in charge.

A further object is to provide a chair of this type which will be hygienic in every respect, a still further object being to provide a collapsible or foldable chair of this type characterized by simplicity of construction.

For further comprehension of the invention and of its objects and advantages reference will be had to the following description and accompanying drawings, the various novel features of the invention being more particularly defined in the appended claims.

Figure 1 of the drawings is a perspective view of a chair embodying the invention.

Fig. 2 is a side view of the chair in folded or collapsed position.

Fig. 3 is a plan view of one side thereof, both sides being of similar construction.

Fig. 4 is an enlarged detail vertical section taken longitudinally through the center of the chair.

Fig. 5 is a vertical section on the line 5—5 of Fig. 3.

In the embodiment of the invention here illustrated, the chair comprises a pair of side frame bars 2 extending horizontally along each side of the seat portion of the chair. Depending from the front end of these bars are the front legs 4 and depending from the rear ends of these bars are the rear legs 6. The front legs are hinged as at 8 to the side frame bars 2 to permit of their being swung rearwardly and upwardly into the folded position adjacent the side frame bars, as indicated in Fig. 2, while the rear legs 6 are likewise hinged at 11 to the rear ends of the side frame bars to permit of their being swung forwardly and upwardly into the folded position adjacent the side frame bars. The front legs may be rigidly connected together by the cross bar 13 while a similar cross bar 15 may connect the rear legs to one another.

The front and rear legs are held in extended position by the jointed straps, 16 and 17, respectively, each hinged at one end to the side frame bars 2 and at their other ends to the front and rear legs 4 and 6, respectively, the straps 16 and 17 being so arranged that the front and rear legs incline downwardly and outwardly toward the front and rear. Any well known means may be provided to hold the straps in extended position. The front ends of the side frame bars are rigidly connected by a cross bar 18 having the transversely spaced depressions 19 therein.

Hinged to upturned lugs 20 formed on the rear ends of the side frame bars 2 are a pair of arms 21—22 forming the side frames for the back of the chair. I prefer to make these arms in two sections with the upper portions 21 telescoping into the lower portions 22 to make the chair more compact when collapsed, any suitable means, such as the set screws 23, being employed to retain the upper portions 21 in the desired position. These upper portions 21 are united by a rigid crosspiece 24 at the upper end thereof.

The chair back may be adjustably held in different inclined positions by suitable means, as the bail 26 hinged to the arms 22 and engaging in notches 27 in the rear legs 6.

Hinged to the front ends of the side frame bars on the before mentioned pivots 8 are a pair of arms 30 forming a frame for a foot rest extension connected at their front ends by a rigid cross bar 31. Suitable means, as the bail 32, hinged to the arms 30 and engaging in notches 33 in the front legs 4, may be provided for adjustment of the foot rest extension.

The back, seat and foot rest extension may

be formed of a continuous strip 35 of canvas or other suitable material connected at one end to the cross piece 24 and at its opposite end to the cross piece 31, and resting upon the cross bar 18.

Formed in that portion of the canvas constituting the seat of the chair is an aperture 40, while a pan 41 is adapted to be supported beneath such aperture. As here shown, a pair of supporting strips 42 and 43 are hinged, as at 44 and 45, to the side frame bars 2 and are adapted to support the pan, as clearly shown in Fig. 4, these strips being held in proper position by extensions 46 and 47 thereon which engage the stop members 48 and 49 on the side frame bars 2. Studs 50 and 51 may be provided on the supporting strips 42 and 43 to position the pan thereon, allowing the same to be freely inserted or withdrawn from one side, as will be apparent.

We prefer to provide also the side arms here shown as each comprising a horizontal member 60, mounted on the upper ends of parallel links 62 and 63, and an inclined member 61, mounted on the face ends of the parallel links 64 and 65. The arms 62 are hinged at their lower ends to upturned lugs 69 on the ends of the cross bar 18, the links 65 being hinged to the side arms 21 as shown while the links 63 and 64 are hinged on the lugs 20. Set screws 66 may be employed to hold the parallel links in any adjusted position. The spaces inclosed by these side arms may if desired be filled with cloth or canvas suitably attached to the arms.

The chair can be made in different sizes to accommodate either infants or adults.

The manner in which the chair is folded will be readily understood from Fig. 2. The front legs being hinged on the inside of the side frame bars 2 and the rear legs on the outside, as clearly shown in Figs. 1 and 3, these legs do not interfere with one another when folded inwardly, while the straps 16 and 17 buckle inwardly in a well known manner. The strips 42 and 43 for supporting the pan swing upwardly alongside the bars 2 and are thus out of the way of the legs. The foot rest extension is folded back over the bottom of the seat and the back folded forward over the top of the seat the upper arm members 21 being telescoped into the lower arm members 22. The side arm members 60 and 61 are swung on the links 62, 63, 64 and 65 by loosening the screws 66 and folded conveniently adjacent the side frame bars 2 and arms 22.

The adjustment of the canvas 35 by means of the telescoping arms 21 and 22, by which the portion of the canvas forming the chair back is adjusted longitudinally of itself, also permits of adjustment or regulation of the sag of the canvas, as may be desired for comfort or convenience, or to raise or lower the apertured seat portion with relation to the pan. The seat and back may be made of an integral member of non-flexible material, such as aluminum, in which case the telescoping arms 21, 22, permit of adjustment of the seat by swinging the arms on their hinges. The object of the space depressions 19 is to cause a slight separation of the legs of the infant when seated in the chair.

The utility and advantages of this improved chair will be obvious to those familiar with the care of infants or helpless people generally from the foregoing description.

It will be apparent that various changes and modifications might be made in the construction as herein described without departing from the spirit of the invention and the right is therefore reserved to all such changes and modifications as come within the scope of the appended claims.

What we claim is:—

1. A chair of the type described comprising a seat and back, means for supporting a pan under the seat, means for adjusting the said back longitudinally of itself the said back and seat being connected to one another to cause longitudinal adjustment of the back to effect vertical adjustment of the seat.

2. A chair of the type described comprising a back and seat formed of a single length of flexible material, means for supporting a pan under the seat, and means for adjusting the said back longitudinally of itself to effect a vertical adjustment of the said seat.

3. A chair of the type described comprising a back and apertured seat consisting of a single length of flexible material, means for supporting a pan under the aperture in said seat, and longitudinally adjustable frame members to which said back is attached, for the purpose set forth.

4. A chair of the type described comprising a back and seat connected to one another to be movable together, and longitudinally adjustable frame members to which said back is attached at its upper end, said frame members being hinged to swing on their lower ends.

5. A chair of the type described provided with an aperture in its seat, said chair having an angularly adjustable back, said back and seat being composed of a single length of flexible material, means for supporting a pan under the said aperture, and means for adjusting the length of said angularly adjustable back to vary the sag of the said flexible material.

6. A chair of the type described provided with an aperture in its seat, and a pair of supporting strips hinged to the frame of the chair adapted to support a pan, said strips

being arranged to permit of the pan being slid therealong while being inserted or removed.

7. A chair of the type described provided with an aperture in its seat, and a pair of supporting strips hinged to the frame of the chair adapted to support a pan, said strips being arranged to permit of the pan being slid therealong while being inserted or removed, and stops on said strips adapted to localize said pan.

Signed at Brooklyn, N. Y. city, N. Y., this 12th day of April, 1917.

MARY L. HENNING.
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."