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CONVERTIBLE CHAIR FOR INFANTS

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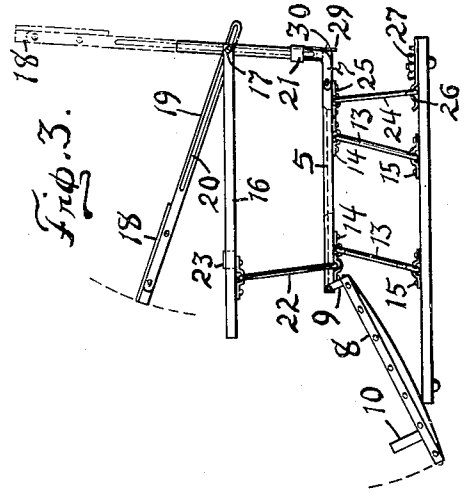


Fig. 3.

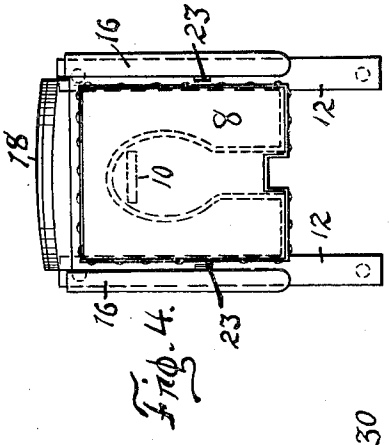


Fig. 4.

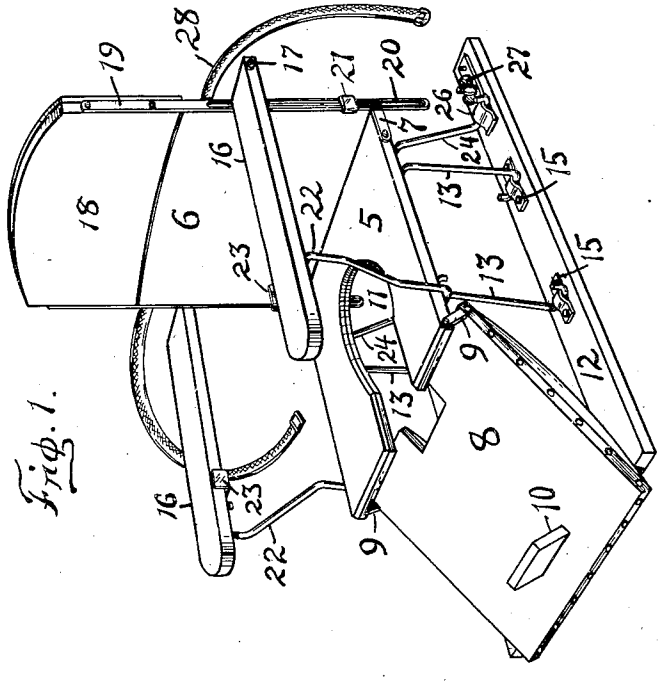


Fig. 1.

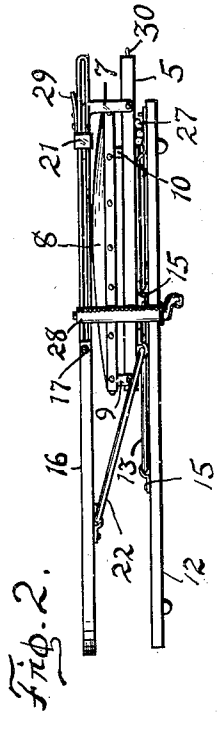


Fig. 2.

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CONVERTIBLE CHAIR FOR INFANTS

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6 Claims. (Cl. 155—31)

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This invention relates to improvements in a convertible chair for infants adapted for general use as a chair or as a toilet seat.

An object of the invention is to afford a chair structure having folding parts connected together in such manner as to permit complete collapse of the chair when not required for use, thus to facilitate portability and storage.

Another object of the invention is to provide a folding chair having a toilet seat provided with a hinged cover therefor that also serves, when unfolded, as a foot rest.

And a further object of the invention is to provide folding legs for the toilet seat and hinged brace members by which to sustain the toilet seat in place when positioned for use.

And a further object of the invention is to provide a foldable tray in connection with the chair structure that serves also as an extension for the back rest for the chair.

Other objects and advantages of the invention appear in the following description.

An illustrative embodiment of the invention is shown in the accompanying drawings, in which—

Fig. 1 is a perspective view of a structure in which the invention is incorporated, the parts being arranged in unfolded position;

Fig. 2 is a side elevational view of the structure collapsed;

Fig. 3 is a side elevational view of the chair in unfolded position for use as a toilet and with the folding tray in an intermediate position; and

Fig. 4 is a top plan view of the chair, the hinged cover being in folded position.

The illustrative embodiment of the invention consists of a chair structure having a toilet seat 5 to which is secured a back rest 6 by means of elbow brackets 7 affording hinged connections therebetween. To the forward end of the toilet seat is secured a hinged cover 8 by means of similar elbow brackets 9, there being secured on one face of the cover a foot rest 10 that projects upwardly when said cover is unfolded. The hinged cover, when folded, conceals the toilet seat 5 and the foot rest then projects through the opening 11 therein.

Each side of the toilet seat 5 is connected with a corresponding base bar 12 by means of folding legs 13, the ends of which are secured respectively thereto by means of hinge straps 14—15, the legs and their hinged connections being arranged to permit movement of the toilet seat backwardly onto the base bars 12.

Folding arm rests 16 are provided which are pivotally secured on the corresponding sides of

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the back rest 6 by means of pintles 17, and a tray 18 is provided having arms 19, the extending end portions of which have elongated slots 20 through which the pintles 17 extend, the arms being interposed loosely between the arm rests and the back rest so as to permit sliding movement of the arms therebetween. On each side of the back rest is secured a stirrup 21 through which the arms 19 are disposed when the tray is positioned on the top of the back rest 6, thus to hold the tray in place thereon to serve as an extension for the back rest.

The forward ends of the arm rests 16 are supported by links 22, the ends of which are hingedly connected respectively with the arm rests and the seat 5 so as to permit forward folding movement of the arm rest and the back rest connected therewith. Each arm rest has an inwardly extending stop 23 for engagement with the corresponding arm 19 to limit downward swinging movement thereof and thus sustain the tray in operative position.

The chair is held in unfolded position by braces 24 that are secured at one end to the seat 5 by hinge straps 25, their opposite ends being removably secured on the corresponding base bars 12 by clamp plates 26 held in place by thumb nuts 27.

A safety strap 28 is secured in its midportion to the back rest 6 with its free ends arranged to encompass the torso of the occupant, or, to encircle the chair when collapsed to prevent unintentional unfolding thereof.

When the chair is unfolded the lower end of the back rest and the rear end of the toilet seat are secured together by means of a spring tongue 29 on the back rest that has latching engagement with a pin 30 on the rear end of the seat.

Operation

When the chair is used for toilet purposes, the parts are arranged (Fig. 1) with the toilet seat elevated, and the cover extended with its outer end resting upon the base bars. By turning the cover back into folded position the toilet seat is concealed and the cover then affords a seat for general use.

When use of the tray is desired as such, the tray together with its arms is elevated so that the arms are removed from the stirrups 21 and then swung forwardly so the arms rest upon the stops 23 in the plane of the arm rests 16, in front of the occupant.

To collapse the chair completely, the cover 8 is first folded back onto the toilet seat 5, the tray is then repositioned upon the back rest with the

slotted arms inserted through the stirrups, and the spring tongue is sprung out of engagement with the pin 30 permitting the back rest, together with the tray and the arm rest to swing forwardly down upon the cover. The links 22 afford guidance for the arm rests in their folding and unfolding movements. The braces 24 are then released from the clamp plates 26, by manipulating the thumb nuts 27, and folded forwardly under the toilet seat, thus permitting the seat, together with the superimposed cover, back rest, tray and arm rests, to be bodily swung backwardly and downwardly onto the base bars. The folded parts are then secured together by encirclement thereof with the safety strap.

Variations from the particular construction above disclosed may be resorted to by the exercise of skill in the art, without departure from the spirit or scope of the invention.

What I claim is:

1. A child's folding chair in which is included base bars, a toilet seat provided with legs hingedly connecting said bars and toilet seat, braces hingedly connected with the toilet seat and removably secured to said base bars and adapted to be folded forwardly under the toilet seat, a back rest hingedly connected with the rear end of the toilet seat, and having latched connection therewith when in unfolded position, arm rests having pivotal connection with said back rest, links connecting said arm rests with said seat, a cover hingedly connected to the front end of said seat, adapted to be folded backwardly thereon to conceal same, and provide a foot rest when unfolded, a tray having slotted extending arms disposed loosely between the arm rests and the back rest having sliding movement on the pivotal supports therefor, stops on said arm rests adapted to limit movement of said arms in one direction, and stirrups on said back rest for the reception of said arms when the tray is positioned on the back rest.

2. In a child's folding chair, a toilet seat, a support for said seat including base bars and legs, the seat being adapted to be folded rearwardly onto said base bars, braces hingedly connected with said seat and removably attached to said base bars, a back rest hingedly connected to the rear end of said seat adapted to be folded forwardly and having latched connection with the seat when in unfolded position, arm rests supported by pintles on the back rest and hinged links connecting the arm rests with said seat, a cover hingedly connected with the front end of said seat, adapted to afford a foot rest when unfolded and to conceal the toilet seat when folded, a tray having slotted arms disposed loosely between the arm rests and back rest having sliding movement on said pintles, and stirrups on the sides of the back rest for the reception of said arms when the tray is positioned on the back rest.

3. A child's folding chair consisting of a toilet seat, a hinged cover on said seat that when folded backwardly conceals said seat and when in unfolded position affords a foot rest, a folding support for said seat including base bars and legs hingedly connecting the base bars and seat,

adapted to fold rearwardly, braces detachably connected with said base bars and hingedly connected with said seat adapted to fold forwardly under the seat when detached from said base bars, a back rest hingedly connected to the rear portion of said seat adapted to fold forwardly onto said cover and having latched connection with the seat when in unfolded position, a tray having slotted arms disposed astride the back rest and supported by pintles on the sides thereof for sliding movement, stirrups on the sides of the back rest adapted to receive the ends of said slotted arms when the tray is positioned upon said back rest to afford an extension thereof, and folding arm rests hingedly connected with the back rest and seat, provided with stops to limit folding movement of the tray.

4. A child's chair consisting of a toilet seat, a support for the seat including base bars, legs hingedly connecting same with said seat, and foldable braces detachably connected with said base bars and hingedly connected to the seat, a hinged member on the forward end of the seat to cover same when folded and to afford a foot rest when unfolded, and a back rest, hinged to the rear end of the seat, having latched engagement therewith when in unfolded position, and adapted to be folded forwardly onto the cover when the chair is collapsed.

5. A child's chair consisting of a toilet seat, a collapsible support upon which the seat folds rearwardly, a cover hinged to the forward end of said seat that affords a foot rest when unfolded forwardly, and conceals the seat when folded backwardly, and a back rest hinged to the rear end of the seat, having latched engagement therewith when unfolded, and overlies the cover when folded.

6. A child's chair having a toilet seat provided with a cover hinged to its forward end adapted when unfolded to afford a foot rest and having hinged to its rear end a back rest so that the cover when folded back onto the seat, and the back rest is folded forwardly onto the cover, the folded parts and the seat are then in parallel compact formation, a collapsible support for the seat including base bars and legs hingedly connecting same with said seat, and folding braces hinged to the seat and detachably connected with said base bars adapted to support the seat in operative position.

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