Jan. 18, 1949. J. P. TIRITILLI ET AL 2,459,601

INFANT'S COLLAPSIBLE AND PORTABLE CHAIR

Filed Jan. 21, 1947

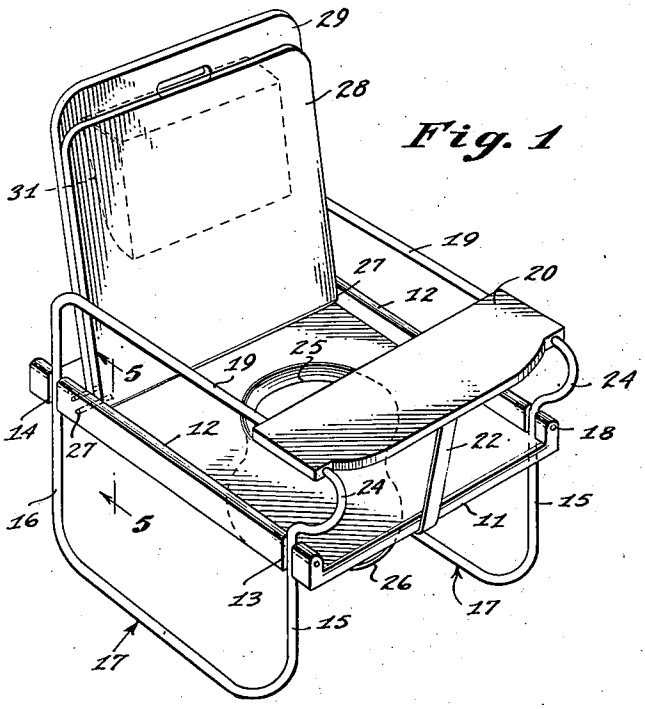


Fig. 1

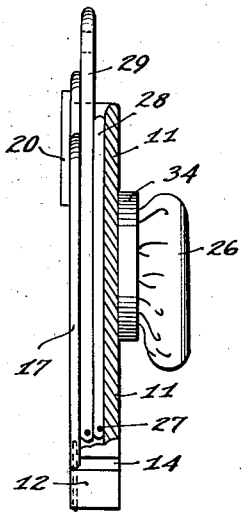


Fig. 2

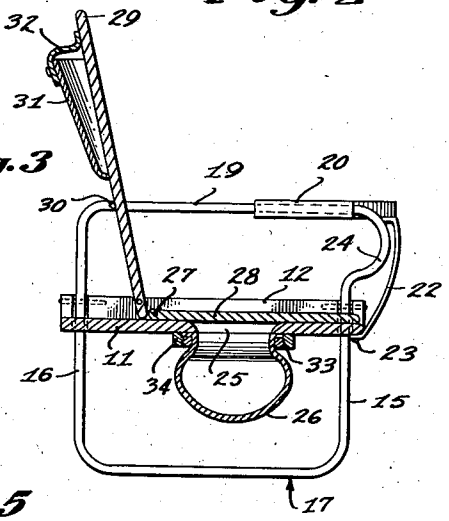
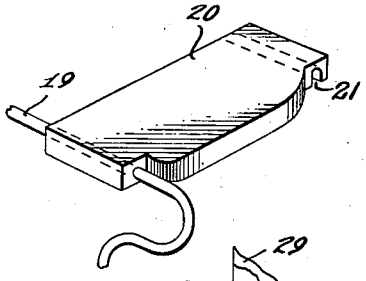


Fig. 3

Fig. 4



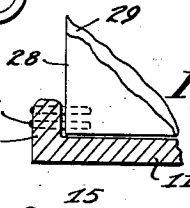


Fig. 5

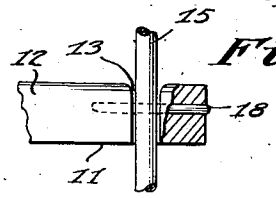


Fig. 6

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Patented Jan. 18, 1949

2,459,601

UNITED STATES PATENT OFFICE

2,459,601

INFANT'S COLLAPSIBLE AND PORTABLE CHAIR

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Application January 21, 1947, Serial No. 723,406

4 Claims. (Cl. 155—31)

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This invention relates to infants' chairs, and more particularly to an infant's chair of the collapsible type.

A main object of the invention is to provide a novel and improved collapsible nursery chair which is very simple in structure, easy to fold, and readily carried from place to place.

A further object of the invention is to provide an improved nursery chair of the folding type, said chair being inexpensive to manufacture, very compact in size when folded, light in weight, and readily set up for use.

Further objects and advantages of the invention will become apparent from the following description and claims, and from the accompanying drawings, wherein:

Figure 1 is a perspective view showing a nursery chair constructed in accordance with the present invention.

Figure 2 is a side elevational view, partly in cross-section, of the chair of Figure 1 in folded condition.

Figure 3 is a vertical transverse cross-sectional view of the chair of Figure 1.

Figure 4 is a detail perspective view of a tray structure employed in the chair of Figure 1.

Figure 5 is an enlarged detail cross-sectional view taken on line 5—5 of Figure 1.

Figure 6 is an enlarged detail view, partly in cross-section, showing the hinge means for the supporting leg elements of the chair of Figure 1.

Referring to the drawings, 11 designates the base portion of the seat, said base portion being generally rectangular in shape and having raised side ribs 12, 12. Each side edge of base 11 is notched adjacent its front and rear portions, as shown at 13 and 14 the notches traversing the ribs, and received in the notches are the respective vertical elements 15 and 16 of side supports 17, the vertical elements 13 and 14 being pivotally secured to the ribs 12, 12 by pins 18 extending longitudinally of the ribs and traversing the upper portions of the notches 13 and 14, whereby the side supports may be pivoted around the pins when the chair is to be folded. Each side support has an upper horizontal arm rest bar portion 19. Pivotally secured to one of said upper horizontal bar portions is a tray member 20, said tray member being formed at its bottom surface adjacent its free edge with a groove 21 adapted to receive the opposite upper bar portion to lock the side supports in vertical positions. A flexible fastening strap 22 is secured to the under surface of tray 20 at its mid-portion adjacent its forward edge. The lower end of strap 22 is detachably secured to the bottom surface of base portion 11 adjacent its forward edge by a conventional snap fastener 23. Strap 22 thus holds tray 20 against upward pivoting when the tray is in the position shown in Figure 1.

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Side supports 17 are preferably formed of round metal tubing and as shown in the drawings, are generally in the form of rectangles having forwardly projecting upper bends 24, 24.

The central portion of base 11 is apertured, as shown at 25, and detachably secured to the bottom of the base around the aperture by an externally threaded annular clamping washer 33 engaging an internally threaded annular nut 34 secured to the base 11 is a flexible disposal bag 26 of rubber, rubber-lined fabric, or other suitable leakproof material.

Pivoted to ribs 12, 12 at 27, 27 is a closure member 28 which may be raised to the position shown in Figure 1 when the seat is to be used for the relief of the infant. At other times the closure 28 is positioned horizontally, as shown in Figure 3, in sealing relationship to bag 26, forming a seating surface for the infant. Pivoted to ribs 12, 12 rearwardly and upwardly with respect to points 27, 27 is a back support 29 which rests against inwardly directed stop pins 30 carried at the rear portions of bars 19, 19 when the seat is set up for use. When the seat is folded, back support 29 and closure 28 nest into the space defined between side ribs 12, 12. Strap 22 is detached from base 11 and tray 20 is swung outwardly around its pivot. This allows the lower portions of the side supports to be swung outwardly, causing the upper portions thereof to swing into overlying position with respect to the folded back support 29. In this position, the chair is substantially flat and may be easily carried from place to place.

To unfold the chair, the side supports are swung to vertical positions, back support 29 is swung upwardly into engagement with stop pins 30, tray 20 is rotated to a position wherein groove 21 receives the top bar 19 adjacent the free end of the tray and strap 22 is secured to the bottom of base portion 11.

For conveniences in carrying infant accessories, a pocket or pouch 31 of flexible material is provided at the rear surface of back support 29, said pouch having a closure flap 32.

While a specific embodiment of a nursery chair has been disclosed in the foregoing description, it will be understood that various modifications within the spirit of the invention may occur to those skilled in the art. Therefore, it is intended

that no limitations be placed on the invention other than as defined by the scope of the appended claims.

What is claimed is:

1. A nursery chair comprising a generally rectangular base member formed with raised ribs at its side edges, each of said side edges being formed with a pair of notches defining vertical outwardly facing channels, a pair of side support members, each side support member having a pair of vertical bar portions received in the notches at a side edge of the base member, means pivotally connecting said vertical bar portions to the ribs for swinging movement therearound, a tray pivotally secured to the top portion of one side support member and adapted to interlock with the top portion of the other side support member, a back support plate pivoted to the rear portions of said ribs, and stop means on the rear upper portions of said side support members for limiting rearward swinging of said back support plate.

2. A nursery chair comprising a generally rectangular base member formed at its side edges with raised ribs, each of said side edges being formed with a pair of notches defining vertical outwardly facing channels at their lower portions and traversing the ribs at their upper portions, a pair of frame-like side support members, each side support member having a pair of vertical bar portions received in the notches at a side edge of the base, means pivotally connecting the intermediate portions of said vertical bar portions to the ribs for swinging movement therearound, a tray pivotally secured to the top portion of one side member and recessed at its under surface adjacent its free end to receive the top portion of the other side member, a generally rectangular back support plate pivotally secured between the rear portions of said ribs, and inwardly projecting stop pins on the rear upper portions of the side members for limiting rearward swinging of said back support plate.

3. A nursery chair comprising a generally rectangular centrally apertured base member, formed with raised ribs at its side edges, a flexible bag secured to the under surface of said base member around the central aperture therein, a closure plate pivotally secured between the rear portions of the ribs and adapted to overlie the aperture, each of the side edges of the base member being formed with a pair of notches defining vertical outwardly facing channels at their lower portions and traversing the ribs at their upper portions, a pair of frame-like side support members each having vertical bar portions received in said notches and pivoted to the ribs for swinging movement therearound, a tray pivotally secured to the top portion of one side member and adapted to interlock with the top portion of the other side member, a generally rectangular back support plate pivoted to the rear portions of the ribs, and inwardly projecting stop pins on the rear upper portions of the side members for limiting rearward swinging of said back support plate.

4. A nursery chair comprising a generally rectangular centrally apertured base member formed with raised ribs at its side edges, a flexible moisture proof bag, means detachably securing said bag to the under surface of said base member around the central aperture therein, a closure plate pivotally secured between the rear portions of the ribs and adapted to overlie the aperture, each of the side edges of the base members being formed with a pair of notches defining vertical outwardly facing channels at their lower portions and traversing the ribs at their upper portions, a pair of frame-like side support members made of tubular metal, each side member having a pair of vertical bar portions received in the notches at a side edge of the base member, means pivotally securing said vertical bar portions at their intermediate portions to the ribs for swinging movement therearound, a tray pivotally secured to the top portion of one side member and adapted to interlock with the top portion of the other side member, means for detachably securing said tray in interlocking position, a generally rectangular back support plate pivoted to the rear portions of the ribs rearwardly of and above the pivotal axis of the closure plate, and stop means on the rear upper portions of the side members for limiting rearward swinging of said back support plate.

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