Aug. 7, 1951 M. ROSENJACK 2,563,553

FOLDING HIGHCHAIR

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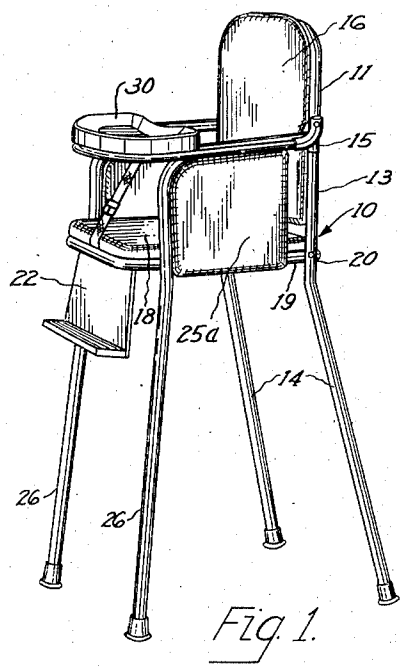

Fig. 1.

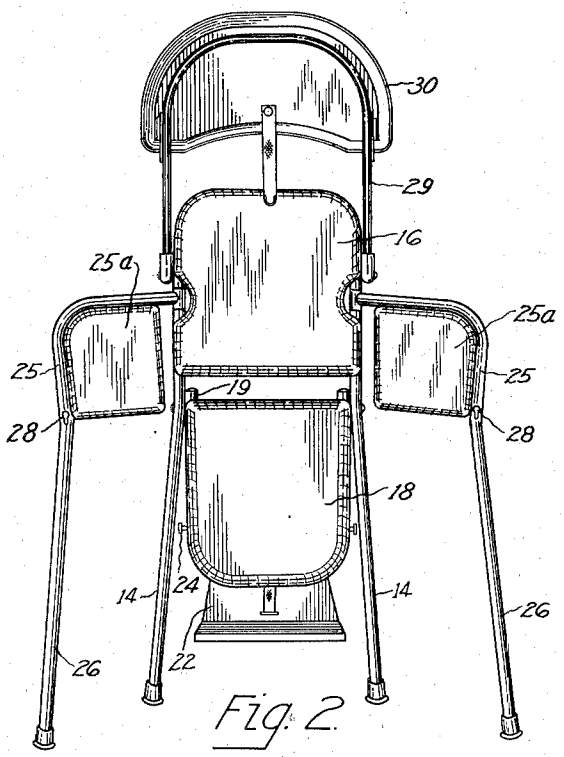

Fig. 2.

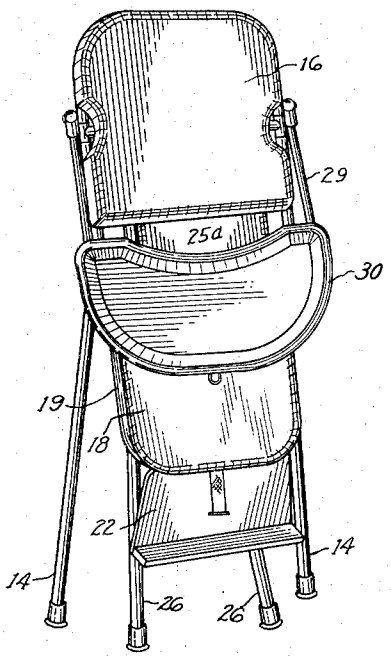

Fig. 3.

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FOLDING HIGHCHAIR

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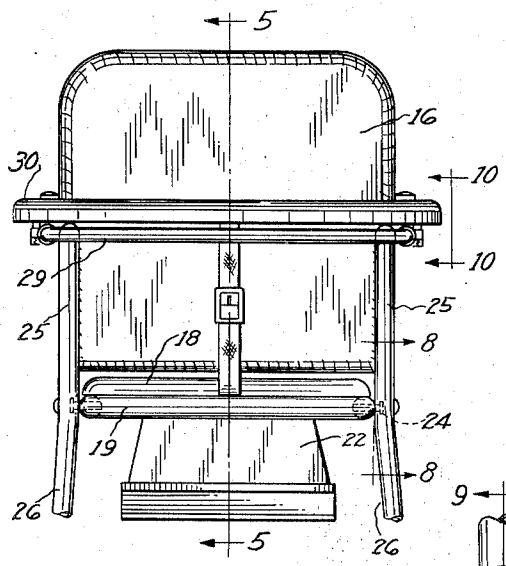

Fig. 4.

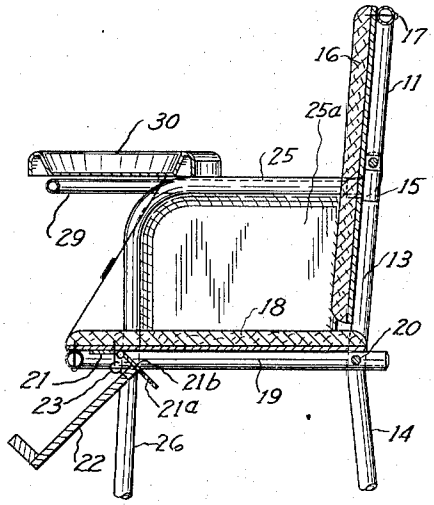

Fig. 5.

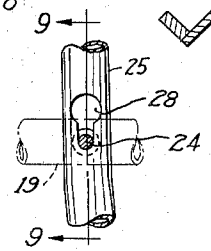

Fig. 8.

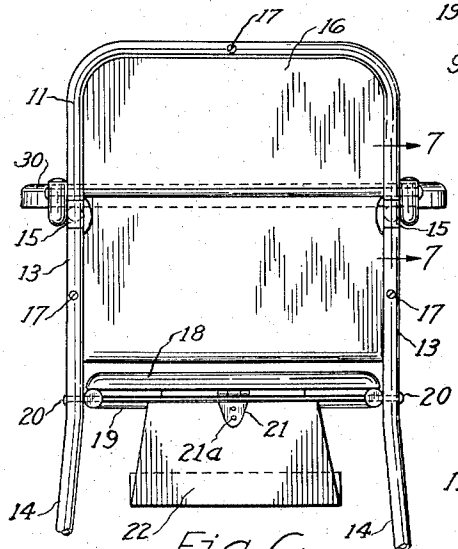

Fig. 6.

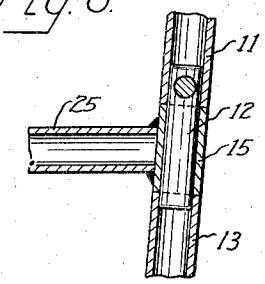

Fig. 7.

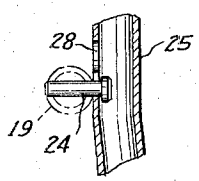

Fig. 9.

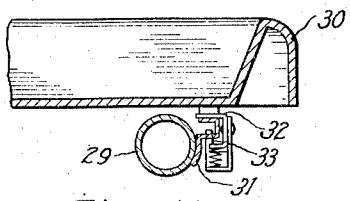

Fig. 11.

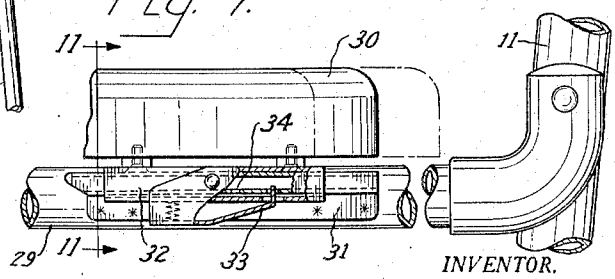

Fig. 10.

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FOLDING HIGH CHAIR

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7 Claims. (Cl. 155—126)

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This invention relates to foldable chairs and more particularly to a new and improved high chair capable of being readily and easily erected or collapsed and which is relatively compact when in folded condition.

The high chair of the present invention comprises a rear frame, of which the rear legs of the chair form an integral part, a pair of angulated side frame members pivotally secured to the rear frame, a portion of each comprising the front legs of the chair, and a U-shaped seat frame pivotally carried by the rear frame having members interengaging with the side frame members for locking the various elements of the chair in assembled position, and a frame pivotally mounted to the rear frame for supporting a food tray. The various members constituting the elements of my chair are preferably of tubular construction thereby adding lightness, rigidity and pleasing appearance to the high chair without sacrificing strength or durability.

It is among the objects of the present invention to provide a folding high chair in which the various elements comprising the chair are all pivotally mounted upon the rear frame of the chair and are collapsible relative thereto.

It is another object of the invention to provide in a high chair a rear frame member, a pair of side frame members pivoted thereto, and a seat pivoted to the back frame and engageable with the side frame members for locking the various elements in assembled relation.

A further object of this invention is to provide a high chair of tubular construction embodying a rear frame member and a plurality of chair elements pivoted thereto, and anchorage for securing and rigidly holding the movable elements in assembled relation with respect to the rear frame member.

A still further object of the invention is to provide a foldable high chair which is simple in design, economical to manufacture and which may be erected and collapsed with ease, and when assembled has all the characteristics of a rigid construction.

These and other objects and advantageous features of the invention not at this time more particularly pointed out, will become more apparent as the nature of the invention is better understood from the following detailed description taken in conjunction with the accompanying drawings, wherein like reference characters denote corresponding parts, and wherein:

Figure 1 is a perspective view of a high chair made in accordance with the present invention and illustrated in assembled position;

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Figure 2 is a front elevational view of the high chair in a partial state of collapse, illustrating the relative position of the pivoted elements of the chair with respect to the rear frame thereof;

Figure 3 is a perspective view of the high chair in collapsed position illustrating the relationship between the various elements in such position;

Figure 4 is a fragmentary front elevational view of the upper portion of the high chair;

Figure 5 is a vertical sectional view taken on the line 5—5 of Figure 4;

Figure 6 is a rear elevational view of the portion of the high chair shown in Figure 4;

Figure 7 is a sectional detail of one side frame pivot taken along the line 7—7 of Figure 6;

Figure 8 is a sectional detail taken on the line 8—8 of Figure 4 and illustrating the locking means between the side frame members and the seat frame;

Figure 9 is a sectional detail taken along the line 9—9 of Figure 8;

Figure 10 is a fragmentary side view of the food tray frame illustrating the tray adjustment locking mechanism partly in section; and

Figure 11 is a sectional detail taken on the line 11—11 of Figure 10.

With reference to the accompanying drawings and particularly Figures 1, 2 and 3 thereof, there is illustrated a folding high chair embodying the teachings of the present invention and including a rear frame 10, having a U-shaped portion 11 and depending tubular members 13 which are flared outwardly and rearwardly to define the rear legs 14 of the chair. The members 13 are secured to the U-shaped portion 11 by means of hinge pins 12 (see Figure 7). Encircling the hinge pins 12 are rotatable sleeves 15, the purpose of which will be hereinafter described.

A back rest 16 may be secured to the tubular U-shaped portion 11 of the rear frame in any suitable manner, as by means of fasteners 17 (see Figure 6) extending through the tube into the rear panel of the back rest 16.

The seat 18 of the chair is of padded construction and is suitably mounted upon a U-shaped tubular frame 19, the outer free ends of which are pivotally secured to the rear frame 10 as at 20 by means of pivot pins extending therethrough. Secured to the lower surface of the seat 18 adjacent to the forward end thereof is a hinge member 21 having a plurality of openings 21*a* in the free portion thereof. The openings 21*a* are adapted to receive a stud 21*b* extending outwardly from the end of a foot rest 22 which in turn is supported from the lower surface of the

seat 18 by hook and eye elements 23. The structure thus provided serves to support the foot rest in various adjusted positions suitable for the child using the chair. Extending outwardly from the sides of the U-shaped frame 19 adjacent the forward end thereof are headed pins 24, the purpose of which will be hereinafter described.

With reference to Figure 2, there is best illustrated the side frames of the chair, which comprise an angular tubular member 25, the lower portion of which is flared forwardly and outwardly to define the front legs 26 of the chair. The free end of the horizontal portion of the member 25 is secured to the sleeve 15 in any suitable manner, as by means of welding, brazing or the like. The side frames are provided with panels 25a to complete the chair. The tubular members 25 are provided with opposed inwardly facing keyhole slots 28 which, when the seat frame is dropped in horizontal position, are adapted to receive the head pins 24 and thereby lock the elements of the chair in assembled position.

Pivotally mounted on the rear frame 10 is a U-shaped food tray holder frame 29 which is made in the usual shape and forms a band of encirclement for the protection of the chair occupant when the frame is lowered to its operative position. The sides of the frame 29 lie on the outside of the horizontal portions of the side frame members 25 and serve to press the side rails inwardly, providing thereby normal pressure for holding the side frame members in rigid position.

A food tray 30 is slidably mounted upon the frame 29 (see Figures 10 and 11). Secured to the side of the frame 29 is a channel shaped bracket 31, which is adapted to be engaged by a complementary shaped bracket 32 secured to the lower surface of the food tray 30. Suitable apertures 34 are provided in the channel of the bracket 31 and are adapted to be engaged by spring pressed pins 33 carried by the bracket member 32 for securing the food tray in relative positions upon the frame 29.

With reference to Figures 2 and 3, the foldable high chair of my invention is collapsed or folded in the following manner: the food tray frame 29 is pivoted about into a vertical position above the rear frame as illustrated in Figure 2, the seat frame 19 is raised slightly to bring the heads of the pins 23 into alignment with the enlarged portions of the keyhole slots 28 at which point the side frame members 25 are moved outwardly to disengage the same, the seat frame is then dropped to the position shown in Figure 2 between the rear legs 14, the side frames 25 are folded against the back of the rear frame 10 and the food tray frame is dropped against the front of the rear frame. In collapsed position the elements of the chair are positioned as shown in Figure 3.

Having thus described my invention so that those skilled in the art may practice the same, what I desire to obtain by Letters Patent is defined in the appended claims.

I claim:

1. A foldable high chair comprising a substantially U-shaped rear frame member having an upper portion adapted to have mounted thereon a back rest, the free ends of said frame being angularly displaced with respect to said upper portion and serving as the rear legs of the chair, a pair of substantially L-shaped side frame members one end of each being pivotally connected at one point to the rear frame and the other

end serving as the front legs of the chair, a seat frame mounted on the rear frame member, and interengaging means on said seat and the upper portions of side frames for securing said frames in assembled relation.

2. A foldable high chair comprising a substantially U-shaped rear frame the free ends being displaced rearwardly and outwardly and serving as the rear legs of the chair, substantially L-shaped members each pivotally secured at one point to the sides of said rear frame, the upper portions of each of said L-shaped members serving as a side frame and the lower portion serving as one of the front legs of the chair, a U-shaped tubular frame having the free ends thereof pivoted to the rear frame and adapted to receive a seat member, and means for securing said L-shaped members and tubular frame together when the chair is in assembled position, said L-shaped members and U-shaped tubular frame adapted to lie against the rear frame when the chair is in collapsed position.

3. A foldable high chair comprising a substantially U-shaped tubular frame having a substantially vertical portion and leg members angularly displaced relative thereto, a back rest secured to said vertical portion, substantially L-shaped side frame members each pivotally mounted at one point on said tubular frame and having a portion thereof serving as a leg member, and a U-shaped frame the free ends thereof being pivoted to said tubular frame and adapted to receive a seat member, means for securing said seat frame and the upper portion of said side frames in assembled position, and a food tray supporting frame pivoted to the vertical portion of said tubular frame.

4. A foldable high chair comprising a substantially U-shaped tubular frame having a substantially vertical portion and leg members angularly displayed relative thereto, a back rest secured to said vertical portion, substantially L-shaped side frame members each pivotally mounted at one point on said tubular frame and having a horizontal portion and depending portion serving as a leg member, and a U-shaped frame the free ends thereof being pivoted to the said tubular frame and adapted to receive a seat member, means for securing said seat frame and side frames in assembled position, a food tray supporting frame pivoted to the vertical portion of said tubular frame, the side portions of said last named frame adapted to lie outside of the horizontal portion of said side frame members.

5. A foldable high chair comprising a substantially U-shaped tubular frame having a substantially vertical portion and leg members displaced rearwardly and outwardly relative thereto, a back rest secured to said vertical portion, substantially L-shaped side frame members each pivotally mounted at one point on said tubular frame and having a horizontal portion and a depending portion extending forwardly and outwardly and serving as a leg member, and a U-shaped frame, the free ends thereof being pivoted to the said tubular frame and adapted to receive a seat member, means for securing said seat frame and side frames in assembled position and a food tray supporting frame pivoted to the vertical portion of said tubular frame and adapted to engage the side frames and prevent the lateral displacement thereof.

6. A foldable high chair comprising a substantially U-shaped rear frame the free ends being displaced rearwardly and outwardly and serving

as the rear legs of the chair, angulated members pivotally secured to the sides of said rear frame, the upper portions of each of said members serving as a side frame and the lower portion serving as one of the front legs of the chair, a U-shaped tubular frame having the free ends thereof pivoted to the rear frame and adapted to receive a seat member, said angulated members and U-shaped tubular frame adapted to lie against the rear frame when the chair is in collapsed position.

7. A foldable high chair comprising a tubular rear frame, a pair of substantially L-shaped tubular side frames each pivotally connected at one point to the rear frame, a tubular seat frame pivotally connected to said back frame, and a tubular food tray supporting frame carried by said rear frame, said side frames, seat frame and food tray frame adapted to fold toward the rear frame when the chair is in collapsed position.

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