L. HAUSSINGER.

BABY CHAIR.

APPLICATION FILED APR. 22, 1918.

1,295,984. Patented Mar. 4, 1919.

Fig. 10.

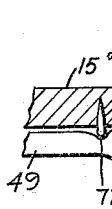


Fig. 1.

Fig. 2.

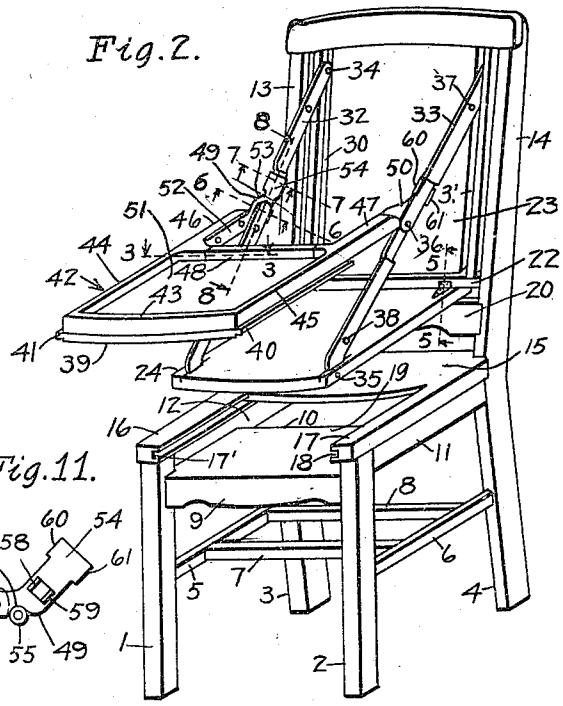


Fig. 11.

Fig. 3.

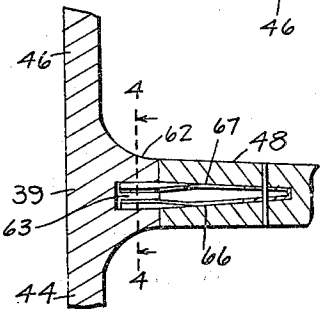


Fig. 4.

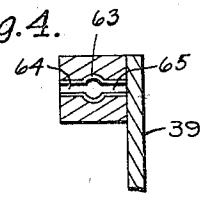


Fig. 5.

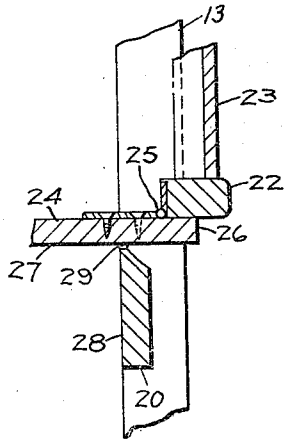


Fig. 6.

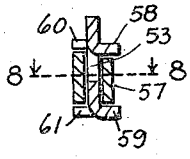


Fig. 7.

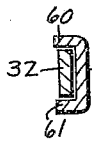


Fig. 8.

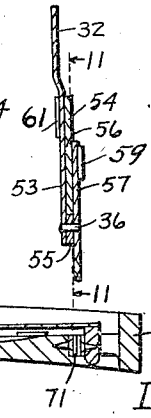
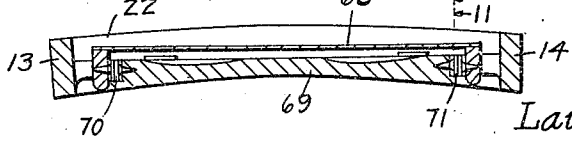


Fig. 9.



Inventor:

Lawrence Haussinger,

by Hazard & Miller

Atty's.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

LAWRENCE HAUSSINGER, OF ALHAMBRA, CALIFORNIA.

BABY-CHAIR.

1,295,984. Specification of Letters Patent. Patented Mar. 4, 1919.

Application filed April 22, 1918. Serial No. 230,030.

To all whom it may concern:

Be it known that I, LAWRENCE HAUSSINGER, a citizen of the United States, residing at Alhambra, in the county of Los Angeles and State of California, have invented new and useful Improvements in Baby-Chairs, of which the following is a specification.

My object is to make a transformable chair, and my invention consists of the novel features herein shown, described and claimed.

The leading feature of my invention is the provision of means whereby a common dining room chair may be transformed into a high chair and back again.

Figure 1 is a perspective of a chair embodying the principles of my invention, set up to be used by adults as a common dining room chair.

Fig. 2 is a perspective of the same chair transformed into a high chair for babies.

Fig. 3 is an enlarged fragmentary sectional detail horizontally on the line 3—3 of Fig. 2.

Fig. 4 is a cross sectional detail on the line 4—4 of Fig. 3.

Fig. 5 is a sectional detail on the line 5—5 of Fig. 2.

Fig. 6 is a cross sectional detail on the line 6—6 of Fig. 2.

Fig. 7 is a cross sectional detail on the line 7—7 of Fig. 2.

Fig. 8 is a cross sectional detail on the line 8—8 of Fig. 6.

Fig. 9 is a horizontal sectional detail through the folded chair back and showing a modified construction.

Fig. 10 is a fragmentary vertical section on the line 10—10, of Fig. 1.

Fig. 11 is a sectional detail on the line 11—11 of Fig. 8.

The front legs 1 and 2 and the rear legs 3 and 4 are rigidly secured together by the rungs 5 and 6 and the braces 7 and 8, said rungs and braces being located in a level at the centers of the legs half way between the ends of the legs.

The upper ends of the legs 1 and 2 are connected by a front bar 9 and a board 10 extends backwardly from the upper edge of the front bar 9. The upper ends of the legs 2 and 4 are connected by a bar 11 and the upper ends of the legs 1 and 3 are connected by a bar 12. The back supports 13 and 14 are extensions of the legs 3 and 4.

The main seat frame comprises a seat board 15 rigidly secured to the ends of the bars 11 and 12 and between the upper ends of the legs 3 and 4. The bars 16 and 17 extend forwardly from the ends of the board 15 on top of the forward ends of the bars 11 and 12, and fit upon the upper ends of the legs 1 and 2.

Grooves 17′ and 18 are formed in the inner faces of the bars 16 and 17 to form a slideway space 19 above the board 10. A lower back bar 20 connects the back supports 13 and 14 a short distance above the seat board 15, and an upper back bar 21 connects the extreme upper ends of the back supports 13 and 14.

A bar 22 is inserted between the back supports 13 and 14, slightly above the bar 20 and a board 23 is rigidly secured to the bar 22 and the back bar 21, said board 23 being in a plane slightly back of the back supports 13 and 14.

A folding back board 24 is connected to the forward edges of the bar 22 by hinges 25, said hinges being located slightly above the lower edge 26 and against the rear face of the folding back board 24, so that when the folding back board 24 is turned upwardly its front face 27 will be flush with the front face 28 of the bar 20, and flush with front face of the bar 21, and so that the back board 24 will swing forwardly and downwardly to a horizontal position to form a seat for a baby. A felt cushion 29 is placed upon the upper edge of the bar 20 to be engaged by the face 27 of the folding back board 24, when the board is swung to its horizontal position.

Grooves 30 and 31 are formed in the front face of the back board 23, said grooves extending up and down from the bar 22 to the bar 21. Folding links 32 and 33 have their upper ends mounted in the upper ends of the grooves 30 and 31 and secured in place by pins 34, and their lower ends are connected to the outer or upper ends of the folding back board 24 by pins 35. Each link 32 and 33 is formed of two pieces substantially the same length connected by pins 36.

Recesses 37 are formed in the inner faces of the upper members of the links and projections 38 are formed upon the lower members of the links, so that when the folding back board 24 swings upwardly into a folded position, the projections 38 will snap into the recesses 37 and hold the back folded.

A removable seat section 39 fits in the

space 19 and has tongues 40 and 41, fitting in the grooves 17 and 18, so that the section will slide into and out of position and the section 39 is adapted to be reversed and form a tray 42. The tray 42 consists of the removable seat section 39 turned bottom upward; a strip 43 extending upwardly across the front of the section 39; strips 44 and 45 extending upwardly along the sides of the section 39; the arms 46 and 47 extending backwardly from the strips 44 and 45; the removable strip 48 extending upwardly across the rear side of the section 39; and connections 49 and 50 for removably connecting the arms 46 and 47 to the links 32 and 33; thereby forming a tray space 51 within the strips 43, 44, 45, and 48.

The connection 49 consists of an attaching plate 52 secured to the inner face of the arm 46; a portion 53 extending backwardly from the attaching plate 52 beyond the end of the arm 46; and a portion 54 extending backwardly and upwardly from the portion 53.

A washer 55 is placed between the ends of the members of the links 32 before the pin 36 is inserted, thereby leaving a space 56 between an extension 57 of the lower link member and the lower end of the upper link member; and the portion 53 of the connection fits in this space 56, there being teeth 58 and 59 turned inwardly from the portion 53 to engage the opposite sides of the extension 57, and there being teeth 60 and 61 turned outwardly from the portion 54 to engage on opposite sides of the link 32 so as to make a stiff joint between the link 32 and the tray arm 46. In the same manner the connection 50 makes a stiff joint between the link 33 and the tray arm 47.

Portions 62 extend inwardly from the front ends of the arms 46 and 47, and the strip 48 is removably mounted between these portions. Round holes 63 are formed from the inner faces of the portions 62 and slots 64 and 65 extend up and down from these round holes. Spring tongues 66 and 67 are inserted into the ends of the strip 48, the central portions of the tongues being bulged so that when the tongues pass downwardly through the slots 64 and 65 the bulges upon the tongues will snap into the openings 63 and hold the strip 48 removably in place, so that the strip 48 may be removed for cleaning the tray.

Grooves 30 and 31 provide recesses into which the links 32 and 33 fold when the back board 24 is elevated.

When it is desired to fold the high chair and transform it into a low chair the tray 42 is removed and the section 39 turned right side up and slid into the space 19; the arms 46 and 47 of the connections 49 and 50 passing under the rigid seat board 15.

In the modified construction shown in Fig. 9, I have shown a thin rigid back 68 instead of the back 23 and the folding back board 69 swings upwardly against the thin back 68 thus doing away with the necessity of the grooves 30 and 31, the grooves 30 and 31 folding alongside of the back 69.

Board 10 forms a foot rest for the baby sitting upon the folding back board 24.

Notches 72 are formed in the lower edges of the connections 49 and 50 to engage the washers 55 when the tray 51 is in place to form a part of the high chair. Staples 73 are driven into the bottom of the rigid seat board 15 so that when the removable seat section 39 is shoved into place the staples 73 will snap into the notches 72 and hold the removable seat section firmly in place.

When the high chair feature is folded out of use to produce a common chair as shown in Fig. 1, all evidences of the high chair feature are concealed and the result is the appearance of a simple dining room chair.

Various changes made be made without departing from the spirit of my invention as claimed.

I claim:

1. The combination with folding link members; having washers between the meeting ends; and rivets inserted through the meeting ends and through the washers; of extensions from the lower members; a tray; connections extending from the tray and fitting between the extensions and the adjacent link members; and having teeth engaging the extensions and the link members to form stiff joints to support the tray.

2. A tray for a high chair comprising means having a flat surface forming a bottom, a strip extending upwardly across the front of the bottom, strips extending upwardly along the sides of the bottom; said three strips being rigidly connected to the bottom; arms extending backwardly from the side strips, and a removable strip extending upwardly across the rear side of the bottom.

3. A tray for a high chair comprising means having a flat surface forming a bottom, a rigid strip extending upwardly across the front of the bottom, rigid strips extending upwardly from the sides of the bottom and connected to the ends of the front strip, arms extending backwardly from the side strips, strip portions extending inwardly from the front ends of the arms and having round holes formed from their inner faces and slots extending up and down from the round holes, and a removable strip fitting between the inwardly extending portions and having spring tongues adapted to snap into and out of the round holes through the slots.

4. In a chair, a main seat frame having a rectangular opening, a removable seat sec-

tion fitting in the rectangular opening; there being tongue and groove connections between the sides of the removable seat section and the main frame so that the removable seat section may be removed; a folding back mounted upon the main frame, folding links for supporting the folding back to form a baby seat, and means for connecting the removable seat section to the links to form a tray.

In testimony whereof I have signed my name to this specification.

LAWRENCE HAUSSINGER.

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