

June 6, 1939.

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2,161,657

COMBINED CHAIR AND TABLE FOR INFANTS

Filed Jan. 18, 1937

2 Sheets-Sheet 1

Fig. 1.

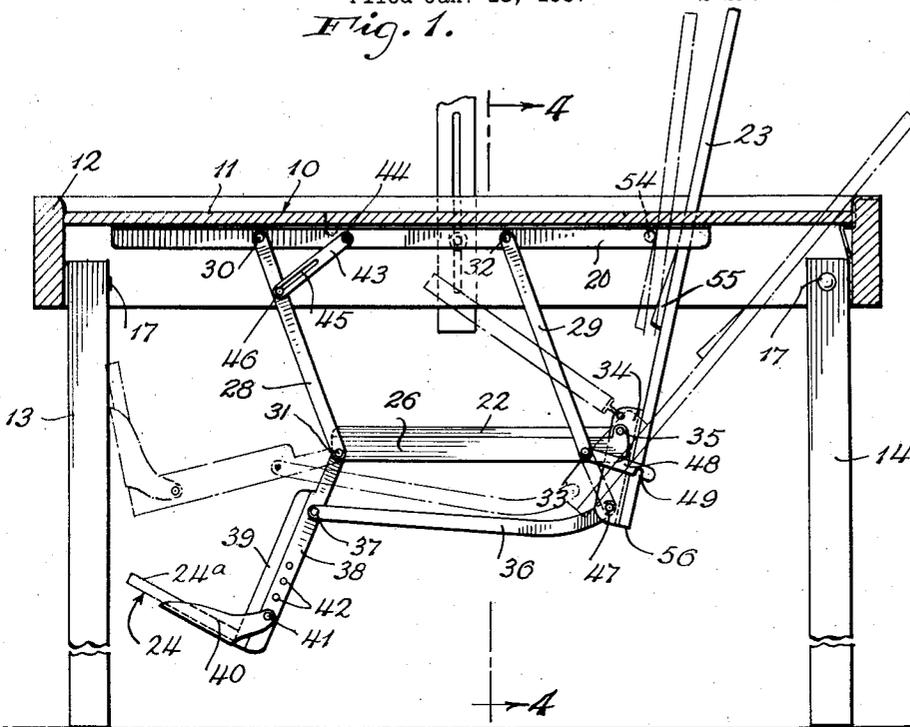
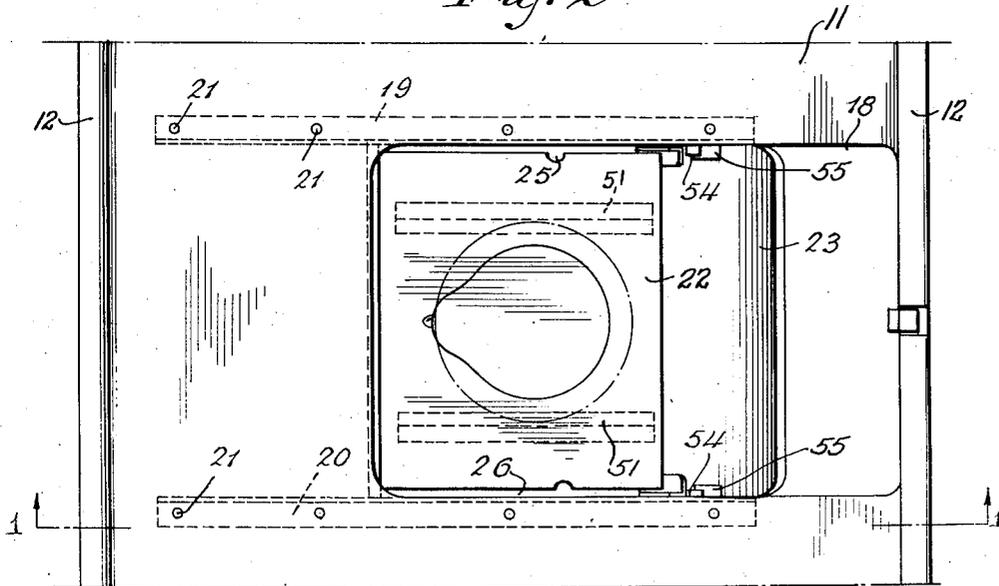


Fig. 2.



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Fig. 3.

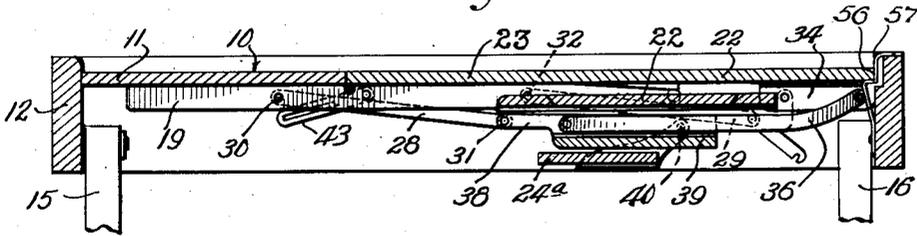


Fig. 4.

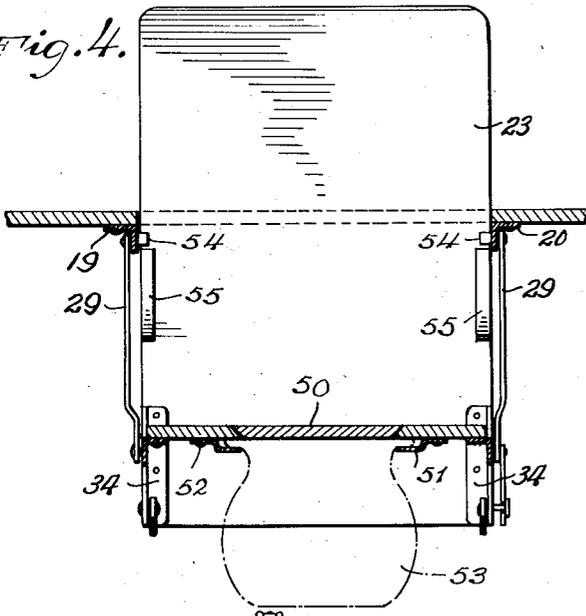


Fig. 5.

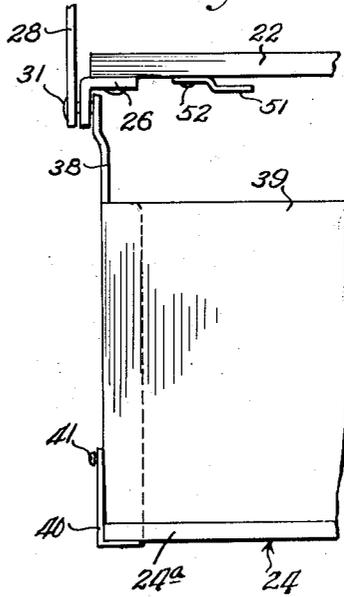
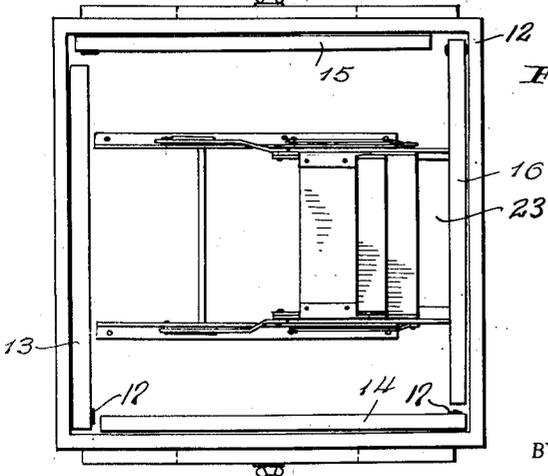


Fig. 6.



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COMBINED CHAIR AND TABLE FOR INFANTS

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Application January 18, 1937, Serial No. 121,107

10 Claims. (Cl. 155—123)

This invention relates to a piece of furniture and refers more particularly to a combined chair and table for infants.

5 An object of the present invention is the provision of a combined foldable chair and table for infants which is light in weight and easily collapsible although it is sturdy and strong in construction.

10 A further object of the present invention is the provision of a collapsible and transportable chair for infants, which at the same time can serve as a table upon which an infant's playthings or his clothing or dishes may be placed.

15 In my copending patent application, Serial No. 123,138 filed January 30, 1937, I have described an article of furniture consisting of a table, a portion of which is provided with an opening. An infant's seat made of a flexible material, such as a textile fabric is suspended from the table and is situated underneath this opening.

20 In accordance with the present invention, the infant's chair is made of the same non-flexible rigid material such as wood or metal, as that of which the table is made. The chair is suspended from the table by a link and lever arrangement and may be folded in such manner that the opening provided in the table is entirely closed by the folded chair.

30 The seat of the chair may have the usual form or may be provided with a removable central portion for the purpose of transforming it into an infant's toilet seat.

35 The above and other objects of the present invention will appear more clearly from the following detailed description when taken in connection with the accompanying drawings showing by way of example a preferred embodiment of the inventive idea.

In the drawings:—

40 Figure 1 is a section along the line 1—1 of Fig. 2 and shows the combined infant's chair and table when it is ready for use.

Figure 2 is a top view of the device shown in Fig. 1;

45 Figure 3 is a central vertical section through the device and shows the chair in its closed or folded position;

Figure 4 is a section along the line 4—4 of Fig. 1;

50 Figure 5 is a detail view showing the attachment of the infant's foot rest.

Figure 6 is a bottom view of the device in its folded position.

55 The combined infant's chair and table shown in the drawings comprises a table surface 10

provided by a horizontal plank 11 which is firmly connected to an outer frame 12. Four legs 13, 14, 15 and 16 are hinged at 17 to the outer frame 12. When the legs 13 to 16 are folded they are situated within the outer frame 12, as shown in Figure 6 of the drawings.

The table is provided with a large opening 18. As shown in Figure 2, the table surface 10 extends in front of the opening 18 and on both sides thereof, while in the rear the opening 18 is enclosed by the outer frame 12.

A pair of angle irons 19 and 20 are situated on both sides of the opening 18 and are firmly connected by rivets 21 with the lower surface of the horizontal table plank 11. The angle irons 19 and 20 serve as supports from which the infant's chair is suspended.

The infant's chair comprises a horizontal plank 22 which constitutes the seat proper, a plank 23 constituting the back rest, and a foot support 24. A pair of angle irons 25 and 26 are connected by rivets 27 to the lower surface of the seat 22. The seat is suspended from the angle irons 19 and 20 by two pairs of links 28 and 29. The two links 28 are pivoted at 30 to the angle iron 19 or the angle iron 20. The opposite ends of the links 28 are connected at 31 to the angle iron 25 or the angle iron 26.

The upper ends of the links 29 are pivotally connected at 32 to the angle irons 19 or 20. The lower ends of the links 29 are pivotally connected at 33 to the angle iron 25 or the angle iron 26.

The back portion 23 of the chair carries two angle irons 34. Pivots 35 connect the angle irons 34 of the back portion 23 with the angle irons 25 and 26 connected to the seat portion 22.

A pair of links 36 extend below the surface of the seat 22. The two outer ends of the links 36 are pivotally connected at 37 with two bars 38 constituting a support for the foot rest 24 and carrying a plank 39. The opposite ends of the links 36 are pivotally connected at 47 to the angle irons 34 of the back portion 23.

The bars 38 are pivotally connected at 31 with the angle irons 25 and 26 of the seat 22. As shown in Figures 1 and 5, the plank 24a of the foot rest serving as a support for the feet of the infant is firmly connected with angular pieces 40 which are pivotally connected at 41 to the bars 38.

As shown in Fig. 1, the bars 38 are provided with several openings 42 for the pivots 41. Due to this arrangement, the distance of the foot support 24 from the seat 22 may be conveniently adjusted depending upon the size of the child.

A pair of links 43 is pivotally attached at 44 to the angle irons 19 or 20. The opposite ends of the two links 43 are provided with elongated slots 45. Pins 46 which are carried by the links 28 and are firmly connected therewith extend through the slots 45.

In Figure 1 the device is shown ready for use. The child may be seated upon the seat 22, its body passing through the opening 18 provided in the table surface 10. The back of the child rests against the back plank 23, while its feet rest upon the foot support 24. The child, when seated may cause the chair to swing within certain limits. The links 43 will prevent the seat from swinging too far forward. The child may recline upon its chair and cause the back 23 to swing about its pivot 35 until the back 23 strikes the edge of the frame 12, as shown by broken lines in Fig. 1. When the back 23 is moved in this direction, the links 36 will move forward and bring the planks 24a and 39 of the foot rest portion 24 in the position shown by broken lines in Fig. 1. In this position the body of the child and its feet are supported in the reclining position.

A link 48 is used for locking the chair in a predetermined position and thus preventing the infant from swinging in the chair. One end of the link 48 is pivotally connected at 33 to one of the links 29. The opposite end of the link 48 is provided with a cut-out portion 49 fitting over one of the pivots 47. As has been described, the pivots 47 connect the links 36 with the angle irons 34 of the back portion 23. In the position shown in full lines in Fig. 1 the chair may be swung freely by the child. In order to prevent such swinging, the link 48 is moved around its pivot 33 until its notch 49 is placed over the pivot 47. In this position which is shown by broken lines in Fig. 1 any swinging of the chair is effectively prevented.

The seat 22 may be converted into a toilet seat through the provision of a central removable portion 50 shown in Fig. 4. Angle irons 51 may be attached by rivets 52 to the lower surface of the seat 22. The angle irons 51 extend at a distance from the lower surface of the seat 22, thereby forming grooves into which the flanges of a receptacle 53 may be fitted.

Figures 3 and 6 show the device in its folded position in which the back 23 fills the entire opening 18.

The angle irons 19 and 20 preferably carry two fulcrums 54 which cooperate with two cam surfaces 55 firmly connected with the back portion 23.

In order to fold the device, the back 23 is moved forward until it strikes against the two fulcrums 54. If the upper portion of the back 23 is then pressed in the same direction, the back 23 will be caused to swing in relation to the fulcrums 54 and at the same time to move forward, so that the cam surfaces 55 will slide over the two fulcrums until the chair is completely folded (Fig. 3).

As shown in Figure 3, the chair, when folded, occupies comparatively little space and all its parts are situated within the outer frame 12. The lower edge 56 of the back 23 presses against the spring 57 which holds the back 23 in the folded position shown. The term "table top", as employed in the claims hereof, includes the member 10 and the frame 12.

What is claimed is:

1. A table having an opening in the top, a seat below the opening, a back rest of complementary

shape to the opening foldably connected to the seat, and means foldably connecting the seat to the table top, so that when the seat and the folded back rest are moved to folded position to the table top the back rest will fill the opening to complete the table top.

2. A table having an opening in the top, a seat below the opening, a back rest of complementary shape to the opening foldably and pivotally connected to the seat and extending through said opening and above the table top, a pair of links having lower ends pivotally connected with the front end of said seat and upper ends pivotally connected with the table top, and another pair of links having lower ends pivotally connected with the rear end of said seat adjacent said back rest and upper ends pivotally connected with the table top, said links foldably connecting the seat to the table top, so that when the seat and the folded back rest are moved to folded position to the table top the back rest will fill the opening to complete the table top.

3. A table having an opening in the top, a seat below the opening, a back rest of complementary shape to the opening foldably connected to the seat, means foldably connecting the seat to the table top, so that when the seat and the folded back rest are moved to folded position to the table top the back rest will fill the opening to complete the table top, a foot rest pivotally and foldably connected with the front end of the seat, and a link extending substantially underneath the seat and pivotally connecting the back rest with the foot rest.

4. A table having an opening in the top, a seat below the opening, pivots carried by said seat adjacent the rear end thereof, a pair of links having lower ends connected by said pivots with said seat and upper ends pivotally connected with the table top, another pair of links having lower ends pivotally connected with the front end of said seat and upper ends pivotally connected with the table top, a back rest of complementary shape to the opening foldably connected to the seat, said links foldably connecting the seat to the table top, so that when the seat and the folded back rest are moved to folded position to the table top the back rest will fill the opening to complete the table top, a foot rest pivotally and foldably connected with the front end of the seat, a link extending substantially underneath the seat, means pivotally connecting one end of the last-mentioned link with the foot rest, another pivot carried by said back rest and situated substantially lower than the first-mentioned pivots, the last-mentioned pivot connecting the other end of the last-mentioned link with the back rest, and another link rotatably mounted upon one of the first-mentioned pivots and having a cut-out portion fitting over the last-mentioned pivot.

5. A table having an opening in the top, a seat below the opening, a back rest of complementary shape to the opening foldably connected to the seat, means foldably connecting the seat to the table top, and guiding means carried by the table top and engaging the back rest when the seat and the folded back rest are moved to folded position to the table top, the back rest filling the opening in the folded position to complete the table top.

6. A table having an opening in the top, a swingable seat substantially underneath at least a portion of said opening, a back rest of complementary shape to the opening foldably connected to the seat, and means foldably connecting the

seat to the table top, so that when the seat and the folded back rest are moved to folded position to the table top the back rest will fill the opening to complete the table top.

5 7. A table having an opening in the top, a seat below the opening, a back rest of complementary shape to the opening extending through said opening and above the table top, a link situated beneath said seat, an angle iron pivotally connected with adjacent ends of said seat and said link, a foot support pivotally connected with other ends of said seat and said link, and means foldably connecting the seat to the table top, said back rest being connected with said angle iron, 10 whereby said back rest is foldably connected to the seat, so that when the seat and the folded back rest are moved to folded position to the table top the back rest will fill the opening to complete the table top.

20 8. A table having an opening in the top, a seat below the opening, a back rest of complementary shape to the opening foldably connected to the seat, and means foldably connecting the seat to the table top, so that when the seat and the 25 the folded back rest are moved to folded position

to the table top the back rest will fill the opening to complete the table top, the table top having an extended surface in front of and at each side of said opening.

9. A table having an opening in the top, a 5 swingable seat substantially underneath at least a portion of said opening, a back rest of complementary shape to the opening foldably connected to the seat, and means foldably connecting the seat to the table top, so that when the seat 10 and the folded back rest are moved to folded position to the table top the back rest will fill the opening to complete the table top, the table top having an extended surface in front of and at each side of said opening. 15

10. A table having an opening in the top, a seat 15 below the opening, a back rest extending through and above the opening when the seat is in position for use, said back rest being of smaller extent than that of said opening and foldably connected to the 20 seat, and means foldably connecting the seat to the table top, so that when the seat and the folded back rest are moved to folded position with respect to the table top the back rest may be positioned within the opening of the table top. 25

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