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COLLAPSIBLE HIGH CHAIR.
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1,164,421.

2 SHEETS--SHEET 1.

Fig. 1.

Fig. 4.

Witnesses

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To all whom it may concern:

Be it known that I, Leo M. Smith, a citizen of the United States, residing at Camden, in the county of Camden and State of New Jersey, have invented certain new and useful Improvements in Collapsible High Chairs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in high chairs of the collapsible type and has for its primary object to provide such a device which may be folded or collapsed easily and quickly and when folded stored in comparatively small space, the tray for the chair being removable so that it may be cleaned easily and effectively, and the chair used by children not desiring a tray.

Another object of my invention is to provide a high chair in which the seat and back are hinged to the legs and the arms are carried by the back, the seat being arranged to cooperate with certain of the supporting legs so as to hold the legs and seat in assembled relation and the arms being arranged to cooperate with the other of the supporting legs so as to hold the back and arms in proper relation to the seat and to one another.

Another object is to provide a high chair of simple construction that may be easily and expeditiously folded or assembled, which is simple as to construction, and inexpensive to manufacture.

The above and additional objects are accomplished by such means as are illustrated in the accompanying drawings, described in the following specification and then more particularly pointed out in the claims.

With reference to the drawings, wherein I have illustrated the preferred embodiment of my invention as it is reduced to practice, and throughout the several views of which similar reference numerals designate corresponding parts.

Figure 1 is a perspective view of my improved high chair assembled, Fig. 2 is a vertical sectional view taken through the chair, Fig. 3 is a detail fragmentary perspective view of the tray looking at the under side thereof, and Fig. 4 is a fragmentary detail perspective view of one of the arms looking at the under side thereof.

Referring to the drawings by characters of reference, 1 and 2 designate front and rear supporting legs that are crossed and pivoted at their intersecting points by means of a horizontal rung or rod 3 extending transversely through the legs and connecting each pair thereof. The upper ends of the legs 1 are disposed rearwardly of the upper ends of the legs 2 and hingedly connected with said legs 1 at their upper ends is a back support 4 of skeleton frame work preferably. Hinges 5 secure the legs 1 with the back 4.

I provide a preferably rectangular seat 6 that is provided at its forward end and on opposite sides with trunnions 7 that are journaled in the upper end portions of the legs 2. Vertical and upwardly directed extensions 8 are formed on the upper end of the legs 2 and are arranged to support arms 9 carried by the back 4. Carried upon opposite sides of the seat 6 are trunnions 10 arranged to engage in slots or recesses 11 formed in the upper ends of the legs 1 in the inner faces of said legs. The trunnions 10 engage in the closed ends of the slots or recesses 11 as shown in Fig. 2 when the seat 6 is in horizontal position as shown in Fig. 2 in the drawings. It will be seen when the seat 6 is in operative position that legs 1 and 2 are prevented relative movement and the seat maintained in operative relation to the legs.

The arms 9 are each pivoted at their inner ends to one of the vertical frame bars 13 of the back 4 upon the inner face of each bar and extend considerably beyond the vertical extensions 8 on the legs 2. An opening 14 is formed in the under face of each of the arms 9 adjacent to the free end of each arm. Carried upon the upper end of each of the vertical extensions 8 is a lug 15 which engages in the opening 14 in the corresponding arm. This arrangement holds the arms 9 and back 4 in operative relation to one another and to the seat 6. Formed on the inner face of each arm and in the bottom face of each arm at points on opposite sides of the opening 14 are recesses 16. The recesses 16 are designed to receive trunnions 17 carried at the ends of a rectangular tray 18 of the ordinary type. The tray 18 is rectangular and engages at its ends the opposite faces of the arms 9 adjacent to the outer ends of the arms. Hooks 19 are pivoted upon the under face of the tray 18 adjacent to the ends thereof and are designed
to cooperate with eyes 20 carried upon the under faces of the arms 9 and adjacent to the openings 14 in said arms. The hooks 19 serve to secure the tray to the arms so that it is supported in the proper manner but capable of being readily removed for the purpose of cleaning.

As a means for securely holding the arms 9 against being pulled upwardly from engagement with the extensions 8 I provide hooks 21 that are pivoted upon the inner faces of the extensions 8 and are arranged to cooperate with eyes 22 carried upon the under faces of the arms 9.

I provide a foldable foot rest 23 that is pivoted as at 24 to the lower end of downwardly and forwardly inclined supporting bars 25. The bars 25 are pivoted as at 26 to the legs 1 adjacent to the upper ends thereof and upon the inner faces of the legs. Extension bars 27 extend rearwardly from the foot rest 23 and are provided adjacent to their ends and in their upper faces with recesses 28 to receive the rung or connecting rod 3 to hold the foot rest in horizontal and extended position.

To collapse or fold the chair assuming that it is assembled as shown in Fig. 1, the arms 9 are unhooked and moved out of engagement with the projections 15 on the vertical extensions 8. When this is done the back 4 may be let down and will hang in vertical position from the hinge 5 at the upper ends of the legs 1. After this is done the tray 18 is removed from the arms by unhooking the hooks 19 and forcing the tray downwardly relative to the arms so that the projections 17 will be moved out of the recesses 16. The extensions 27 are then moved out of engagement with the rod 3 as shown in Fig. 2 the device may be folded in the desired position upon the upward movement of the seat 6 to withdraw the trunnions 10 from the recesses 11 in the legs 1.

It will be readily seen that my improved high chair may be folded into compact form and so as to take up little space. The tray 18 may be removed when desired and the arms retained in operative position.

In practice, I have found that the form of my invention, illustrated in the drawings and referred to in the above description, as the preferred embodiment, is the most efficient and practical; yet realizing that the conditions concurrent with the adoption of my device will necessarily vary, I desire to emphasize the fact that various minor changes in details of construction, proportion and arrangement of parts may be resorted to, when required, without sacrificing any of the advantages of my invention, as set forth.

What is claimed is:
1. A collapsible high chair including supporting legs, certain of the legs having slots in the upper end thereof, a seat pivoted to the other legs, trunnions carried by said seat and engaging in the slots in said slotted legs, a back hinged to said last named legs, arms pivoted to the back and means to detachably secure the arms to the legs to which the seat is pivoted.
2. A collapsible high chair comprising crossed supporting legs, a back hinged to the upper ends of the adjacent legs, arms pivoted to the said back, means to detachably secure the arms to the upper ends of the other legs and a seat hinged at the front to the adjacent legs and detachably interlocked with the other legs and maintained in such interlocked position by the back.
3. A collapsible high chair including supporting legs, a back hinged to certain of the supporting legs, a seat hinged to the other of the supporting legs and detachably connected with the legs to which the back is secured and engaged by the back to hold the seat rigidly in position for use, arms pivoted to the back, and means to detachably connect the arms with the legs to which the seat is pivotally secured.
4. A collapsible chair including crossed supporting legs provided at the front of the chair with upwardly projecting extensions, a seat hinged to the legs between the extensions and detachably interlocked with the legs at its rear end and a back hinged to the legs with which the seat is interlocked and retaining the same in its interlocked relation, an arm extending forwardly from the back and detachably secured to the said extensions of the legs.

In testimony whereof I affix my signature in presence of two witnesses.

LEO M. SMITH.

Witnesses:
MARGARET R. LAY,
FRED F. SMITH.

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