

Aug. 28, 1945.

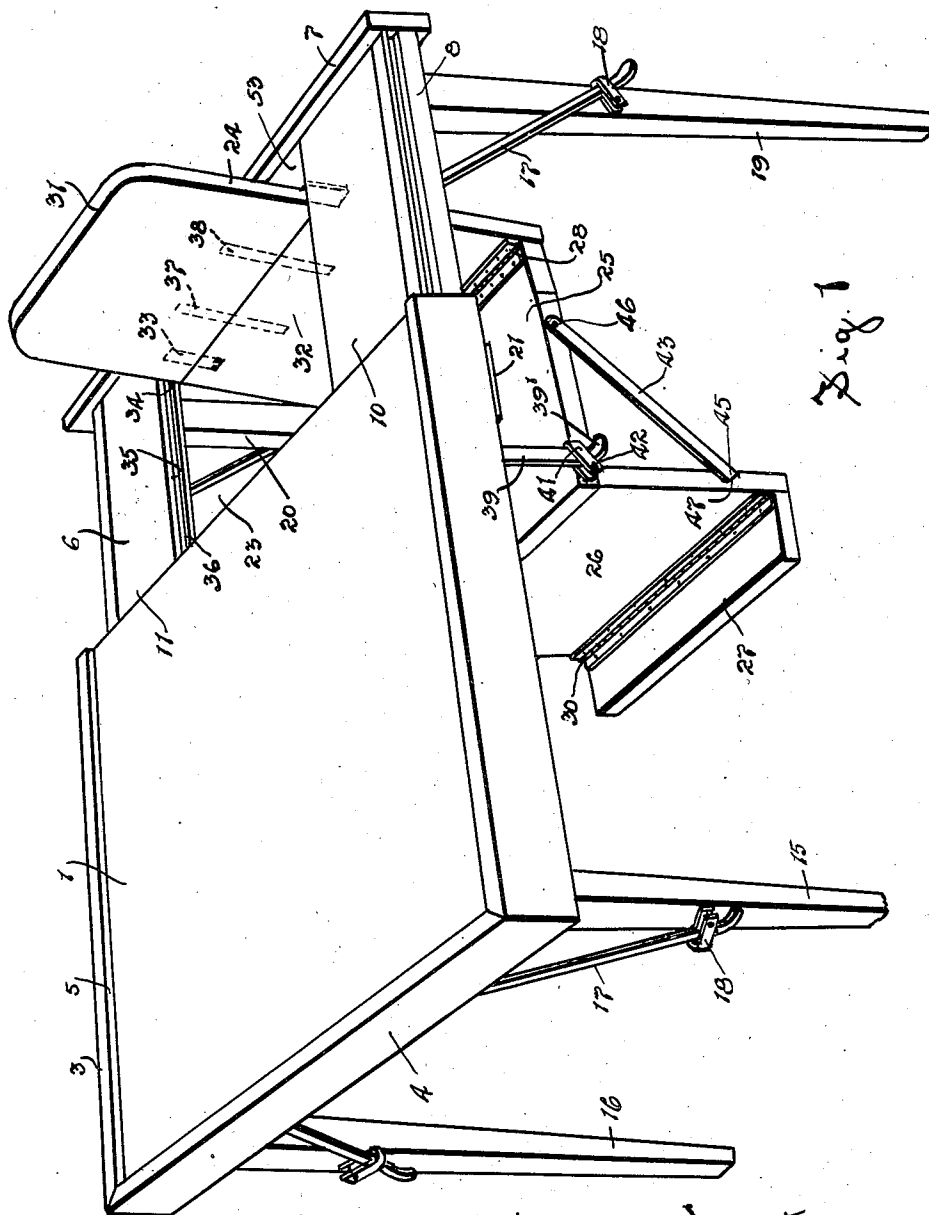
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2,383,831

COMBINATION EXTENSION TABLE AND CHAIR

Filed Oct. 5, 1942

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

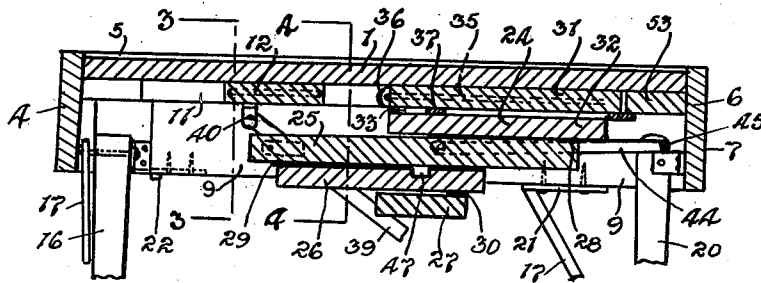


Fig. 2

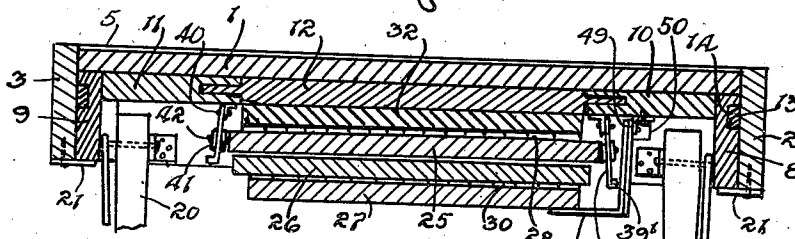


Fig. 3

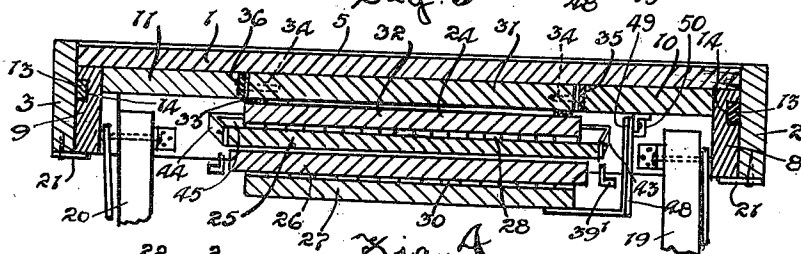


Fig. 4

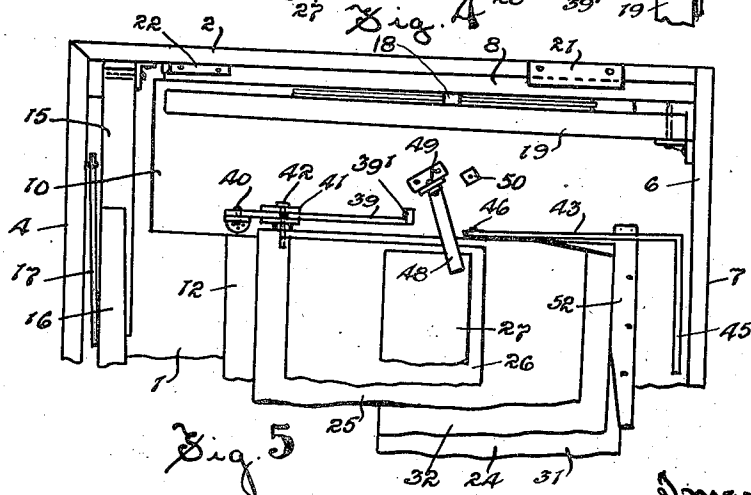


Fig. 5

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UNITED STATES PATENT OFFICE

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COMBINATION EXTENSION TABLE AND CHAIR

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8 Claims. (Cl. 155—124)

The invention relates to combination extension tables and chairs and an object of the invention is to provide a child's folding chair continuously carried by an extension table having folding legs and to so construct the parts that the folded chair will entirely underlie the table top in the closed position of the table extension and can be readily brought to an open or seating position upon the table being extended and with the entire table top then available for use.

A further object is to provide a table having folding legs and a sliding extension portion supporting a folding child's chair and arranged such that the child can be placed in the chair from above, in the open position of the extension portion and the chair can be folded and held to underlie the table top in the closed position of the extension portion.

A further object is to provide the extension portion with side arms forming convenient arm rests at the sides of the open chair.

A further object is to so mount the folding chair that it can be rocked or swayed when in open position.

A still further object is to arrange the chair parts so that the chair can be easily folded or opened and to provide simple and convenient means for releasably holding the folded chair in closed position.

A further object is to provide a folding table having a stationary portion carrying the table top and an extension portion carrying a folding chair and with the chair capable of taking an open position to the side of the table top in the open position of the extension portion and a folded position entirely underlying the table top in the closed position of the extension portion.

A further object is to provide an extension table having the extension carrying a folding chair and the back of the chair formed from hinged upper and lower sections which fold together, thereby reducing the travel required of the extension to permit the chair to be folded or opened and placing also the open chair within convenient range of the table top.

With the above objects in view the invention consists in the arrangement and construction of parts hereinafter described reference being had to the accompanying drawings in which:

Fig. 1 is a perspective view of the invention and showing the table extended and the chair in non-folded or open position.

Fig. 2 is a vertical sectional view, centrally through the table and chair and with the chair in folded position.

Fig. 3 is a vertical cross sectional view at 3—3 Fig. 2.

Fig. 4 is a vertical cross sectional view at 4—4 Fig. 2.

Fig. 5 is an inverted plan view of substantially one half of the table and showing the chair and table legs folded.

In the drawings like characters of reference indicate corresponding parts in the several figures.

The stationary portion of the table comprises the top 1 having the sides and one end thereof secured to the side rails 2 and 3 and an end rail 4, which latter are mitered at the corners and project slightly above the upper face of the table top to provide a retaining ledge 5. The table extension portion, generally indicated by the reference number 6, comprises an end rail 7 similar to that 4, opposing similar side rails 8 and 9 permanently secured to and extending from the rail 7, horizontal arm rests 10 and 11 secured to the rail 7 and to the side rails 8 and 9 and a spacing and re-inforcing cross bar 12 connecting the free ends of the arms.

The extension portion is slidably mounted in relation to the other stationary portion of the table so that the side rails and arm rests thereof can pass beneath the top 1 and the end rail 7 can take a position against the top and close the otherwise open end thereof. In the present instance the side rails 2 and 3 are provided with tracks or guide strips 13 received within longitudinal slots 14 supplied in the side rails 8 and 9. Other well known means for slidably connecting the above parts could obviously be used within the scope of the invention.

The stationary portion of the table is supplied with foldable corner legs 15 and 16 which are adapted to fold transversely of the table and take a position, one underlying the other, and underneath the top 1 and to the inner side of the end rail 4. Any well known way of hinging the legs can be employed and any well known releasable angle brace 17 and catch 18 can be used to releasably lock the legs in extended position.

The extension portion of the table is also provided with corner legs 19 and 20 adapted to fold longitudinally of the table and take a position underneath the arm rests and adjacent the inner sides of the rails 8 and 9 and such legs are supplied with angle braces and catches similar to those associated with the former legs.

Means is provided for limiting the outward travel of the extension portion 6, such being herein shown as stop plates 21 secured to the under

edges of the rails 2 and 3, such plates being engaged by countersunk catches 22 secured to the under sides of the side rails 8 and 9. The plates 21 underlie the rails 8 and 9 and serve also to reinforce the table against downward buckling in the extended position thereof.

It will be observed that when the table is extended there is an open space 23 bounded by the side arms, the end rail 7 and the table top and this opening provides access to the chair from above, as later apparent and also supplies a storage space for a portion of the chair back when the table is in non-extended position.

The chair comprises a sectional back 24, a seat 25, a leg rest 26 and a foot rest 27, hinges 28, 29 and 30 being utilized to pivotally connect such parts together. The sections 31 and 32 of the chair back are connected by rear hinges 33. All the hinges are so arranged that the several parts can fold, one underneath the other and take a position as best shown in Fig. 2. The upper section of the chair back is supplied adjacent its lower end with a pair of horizontally extending aligned pins 34 which are slidably received in horizontal slots 35 provided in side plates or guides 36 secured to the inner (opposing) sides of the side arms. In this way the back as a whole can be slid forwardly or backwardly in the opening 23 and can be rocked on the pins if desired.

A pair of stop bars 37 and 38 are pivotally secured to the lower section of the chair back, at the rear, and these when upturned, as shown in dotted outline in Fig. 1 serve to prevent the back swinging of the upper section in relation to the lower.

In the open or unfolded position of the chair, the pins 34 in the back ends of the slots support the back 24 and the forward end of the seat is supported by similar hangers 39 having their upper ends pivotally attached at 40 to the under sides of the side arms 10 and 11 and their lower ends outturned at 39' and slidably received by similar slotted guides 41 pivotally secured by screws 42 to the seat. The outturned ends of the hangers engaging the guides, act to retain the seat of the open chair in a substantially horizontal position.

The leg rest is held in a position substantially at right angles to the seat by a brace bar bent to provide side arms 43 and 44 connected by a cross portion 45, the side arms being pivotally connected to the sides of the seat at 46 and the portion 45 being received within a cross slot 47 formed in the rear of the leg rest. The hinge 30 is placed somewhat up from the lower end of the leg rest so that the foot rest is held in a horizontal position by contact with the leg rest as shown in Fig. 1.

A catch 48 is supplied to hold the folded or collapsed seat in position, such catch being of an L-shape and being pivotally attached at 49 to the under side of the arm 10. By observing Fig. 5 it will be seen that this catch is mounted to swing angularly outwardly in order to allow it to clear the folded chair parts. Suitable means, such as a rubber buffer 50 can be used to hold the catch in a not in use or idle position. When the catch 48 is swung upwardly, the body portion thereof frictionally engages the side face of the rubber buffer and the holding action is intensified by the fact that the member 48 is made from a thin bar which can be readily sprung laterally.

A cross strip 53 extends between the outer ends of the side arms 10 and 11 and to this I secure a

stop strip 52 which engages the folded chair back as will be later apparent.

Assuming that the table is extended and that the chair is in the open position (as shown in Fig. 1) the operation of folding the chair and closing the table is as follows: one releases the brace bar from the slot 47 and then folds the foot rest against the front face of the leg rest and the leg rest against the underside of the seat and then after having slid the pins 34 ahead in the slots, the seat is folded against the front side of the upswung lower section of the chair back and the upper section of the chair back is swung down to engage the stop bar 52, it being understood that the stop bars 37 and 38 are brought to their horizontal position before this latter operation can be accomplished. The above manipulation brings the several latter parts to the position shown in Fig. 2 and when brought to this position they are held there by swinging the catch 48 in to underlie the foot rest as best shown in Figs. 3, 4 and 5. Here it will be particularly observed that the upper section of the chair back lies in the space between the side arms. During the folding operation the hangers 39 swing on their pivots 40 and slide in the guides 41. When the folding operation has been completed the brace bar is swung upwardly to a position such as shown in Fig. 2 where it is held by friction.

Having folded the chair one then shoves the rail 7 to its closed position against the table top, the rails 8 and 9 sliding in relation to rails 2 and 3 at this time and in the nonextended position of the table the folded chair totally underlies the table top 1. The table having been closed, the legs can then be folded in the well known manner to underlie the table top.

The work of extending the table and opening the chair is obviously the reverse of the operation hereinbefore described.

It will be seen that in the extended position of the table and open position of the chair, the child can be easily placed in the chair through the opening 23 from above, and when so placed has the entire table top area before him and the side arms at his side, which is most desirable. Further owing to the manner in which the chair is suspended, the child can rock or sway the chair if he desires, as the chair can pivot on the pins 34, there being sufficient clearance between the back of the chair and the strip 53 to permit of this, it being understood that at such time the pins are in the rear ends of the slots 35.

What I claim as my invention is:

1. In combination, a table having a top carrying stationary portion and an extension portion having a top opening therein and both portions provided with folding legs and a foldable chair carried by the extension portion and accessible through the said opening in the extended position of the extension and adapted to take a folded position underlying the table top in the closed position of the extension.

2. In combination, a stationary table portion provided with a top and a pair of folding legs, an extension portion slidable towards and away from the top and provided with a pair of folding legs and an open centre, a folding chair carried by the extension and accessible for seating purposes through the said opening and adapted to take a folded position underlying the table top in the closed position of the extension.

3. In combination, a table top provided with side rails and fitted with a pair of folding legs, an extension portion embodying connected side

rails slidably associated with the former rails and having a pair of folding legs, a folding chair between the side rails of the extension and carried by the said extension portion, said chair being foldable to a position underlying the table top in the closed position of the extension portion.

4. In combination, a table top provided with side rails and fitted with a pair of folding legs, an extension portion embodying connected side rails slidably associated with the former rails, a pair of folding legs secured to the latter rails and spaced arm rests secure to the inner sides of the extensions side rails and a folding chair accessible for seating purposes through the space aforesaid and carried by the extension side rails and foldable to a position underlying the table top in the closed position of the extension portion.

5. The combination with a stationary table top portion, having folding legs, of an extension portion slidable towards and away from the stationary portion and presenting opposing spaced arm rests and a folding chair within the space having the back thereof pivotally and slideably carried by the inner sides of the arm rests, a seat pivoted to the back and links connected to the seat and arm rests.

6. The combination with a stationary table top portion having folding legs, of an extension portion slidable towards and away from the stationary portion and presenting opposing spaced arm rests and a folding chair within the space having a sectional hinged back with one of the sections pivotally and slidably carried by the inner sides of the arm rests a seat pivoted to the back and links connected to the seat and arm rests.

7. The combination with a stationary table top portion having folding legs, of an extension portion slidable towards and away from the stationary portion and presenting opposing spaced arm rests and a folding chair having the back thereof formed from upper and lower hingedly connected sections and the upper section slidably and pivotally carried by the inner sides of the arm rests a seat pivoted to the back and links connected to the seat and arm rests.

8. The device as claimed in claim 7 wherein the chair back hinged sections are prevented from closing rearwardly by pivoted stop bars attached to one of the sections and engageable with the other of the sections.

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