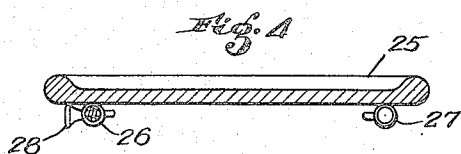
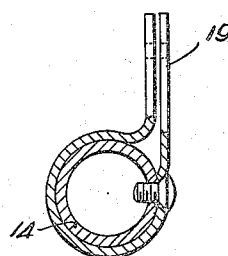
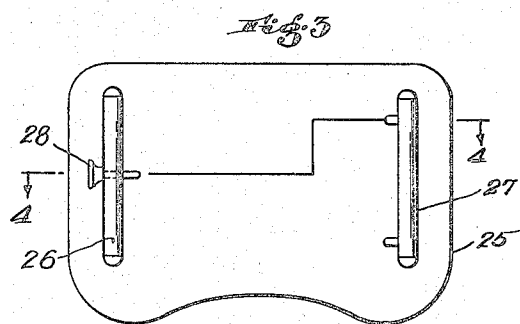
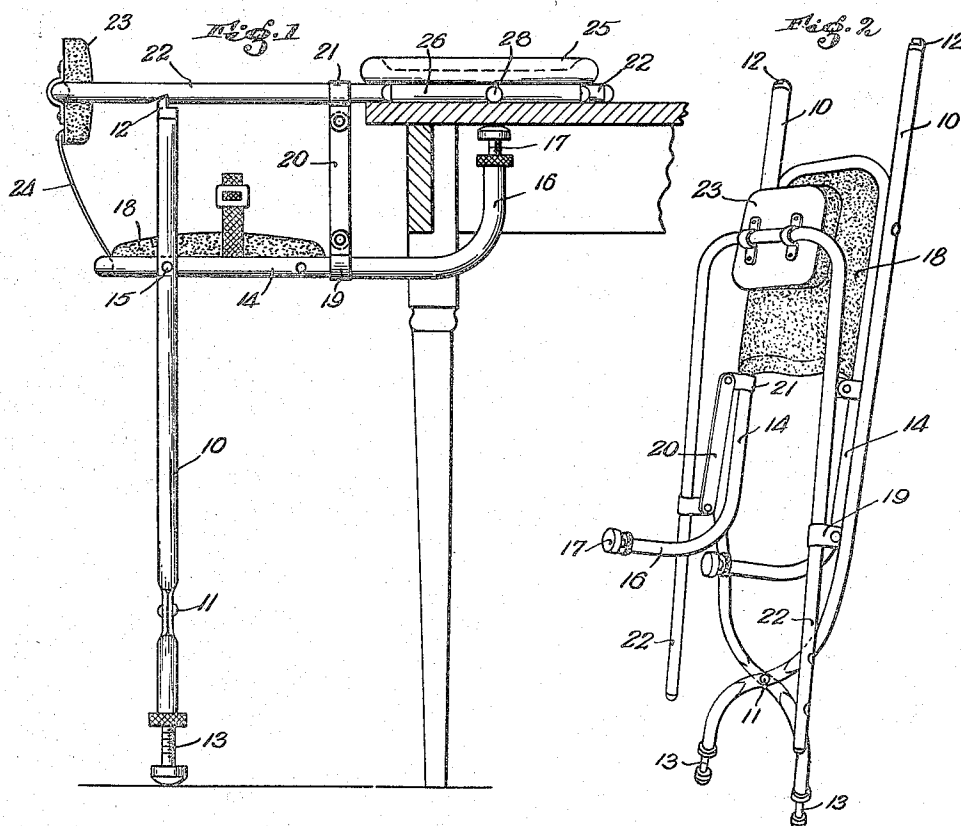


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J. W. HODGSON ET AL
CHILD'S COLLAPSIBLE CHAIR

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Inventors

James W. Hodgson & James F. Figueas.
by Henry J. Henry, Walter & Wilcox
Attorneys

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CHILD'S COLLAPSIBLE CHAIR

James W. Hodgson, Dover, and George F. Vigneau,
Hampton, N. H.

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This invention comprises a new and improved child's collapsible chair constructed and arranged to be detachably and adjustably secured to a table.

The general object of the invention is to provide a chair of this character of light tubular structure and attractive appearance which may be collapsed into a substantially flat package for purposes of transportation and which may be quickly, conveniently and securely attached to the top of any table where it is desired temporarily to seat a child.

Going more into detail the collapsible chair of our invention comprises an upright leg member to which are connected a pair of U-shaped members one of which carries the seat and is provided with upturned ends for engaging the bottom of the table top and the other of which carries the back of the chair and is provided with forwardly extending arms for engaging the top face of the table. Preferably and as herein shown both the leg member and one of the table top engaging members may be made adjustable to accommodate tables of different height and table tops of different thickness.

A feature of the invention consists in directly pivoting the seat member to the leg member and in providing a pivoted link connection between the seat member and the back member so that these two members may be readily swung with reference to the leg member into collapsed or operative position. As a further feature of the invention the leg member and the back member are constructed and arranged to provide interlocking elements which engage when the chair is brought into erected or operative position and serve to hold the chair in that position without danger of accidental collapse.

Other features of the invention relate to the more general tubular characteristics of our novel chair. Adjustment for height and table top engagement are provided by feet or studs threaded into the tubular ends of these members and provided with lock nuts. The link connection between the seat and back members is provided by a metal strap which encircles one arm of the said members and is prevented from shifting by interfitting with an extruded depression therein.

These and other features of our invention will be best understood and appreciated from the following description of a preferred embodiment thereof selected for purposes of illustration and shown in the accompanying drawings in which:

Fig. 1 is a view in side elevation showing the chair in erected condition,

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Fig. 2 is a view in perspective showing the chair in collapsed position,

Fig. 3 is a plan view of the tray as seen from beneath,

Fig. 4 is a sectional view of the tray on the line 4—4 of Fig. 3, and

Fig. 5 is a fragmentary view showing one of the clamps of the link connection.

The chair as herein shown is constructed principally of light metal tubing which may be attractively finished if desired by nickel or chrome plating. The leg member which supports the chair comprises a pair of tubes 10 of equal length which are crossed, flattened and connected by a bolt or rivet 11 near their lower ends and extend vertically with their upper ends in spaced relation in the erected chair. Each tube 10 is provided in its upper end with a plug terminating in a tooth or detent 12. Each tube 10 is provided in its lower end with a bushing (not shown) into which is threaded an adjustable foot 13 provided with a circular lock nut.

A tubular U-shaped seat member 14 is connected by pivots 15 to the leg member near the upper end of the latter. The free ends 16 of the seat member are turned upwardly and contain threaded studs 17 provided also with lock nuts. The seat member is shaped in this manner so that it may clear the rail of a table top and locate the adjustable studs 17 in contact with the underside of the table top as shown in Fig. 3. Suitable adjustment of the feet 13 and the studs 17 adapt the chair for tables of different height and table top construction. A seat 18 of cushion material is permanently secured between the sides of the seat member 14 and in position to fill its closed U-shaped end.

Upon each tubular arm of the seat member is secured a clamp 19 which is in the form of a strap as shown in Fig. 5. The ends of the strap are brought together and perforated to receive a pivot for connection with a link 20. The strap of the clamp is held in position against displacement by having a portion thereof extruded or swedged into an extruded recess in the tube of the seat member.

To the clamp 19 is pivotally connected a link 20 and this link has a similar pivotal connection to a clamp 21 upon the upper U-shaped back member 22. This member has straight parallel ends which engage the top surface of the table and cooperate with the adjustable studs 17 in clamping the chair in its erected position and holding it securely to the table. A back pad 23 is pivotally connected to the closed end of the

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U-shaped member 22 and the back is connected by straps 24 to the rear edge of the seat 18.

The chair is herein shown as provided with a detachable tray 25, this being an optional feature. The tray is of such dimensions as to extend over the ends of the back member 22 and is provided on its lower face with a pair of tubular ribs 26 and 27 spaced closely to engage the parallel ends of the back member 22. The rib 26 is provided with a spring locking pin 28 which holds the tray securely in place but permits it to be readily released when desired and removed.

The erected position of the chair will be clear from an inspection of Fig. 1. When the two U-shaped members are swung into horizontal position the teeth 12 of the leg member engage in corresponding notches provided in the underside of the back member. The links 20 tie the two members securely together and a slight clamping adjustment of the studs 17 is effected to hold the chair structure rigidly in operative position.

On the other hand, when it is desired to detach and collapse the chair the user has only to swing the leg member to release the grip on the table top and slip the ends of the seat and back members off the table top. Thereupon the seat member 14 may be swung 90° into position between the sides of the leg member 10 as shown in Fig. 2. At the same time the teeth 12 are disengaged from their notches in the back member 22 and the latter is permitted through its link connection with the seat member to be rocked forwardly until the back 23 contacts with the seat and swings into parallel relation with it, all as shown in Fig. 2. When the chair is again erected the straps 24 act to pull the back 23 into its vertical position. The tray 25 may be disengaged as already explained and will be found to fit comfortably between the sides of the back member when the latter is in collapsed position.

The U-shaped member 22 has been referred to herein as a "back member." This is not because it carries the back pad 23 but because it has broadly the function of a back for the occupant of the chair. Accordingly it would be within the scope of the invention to omit the pad 23 and to utilize the member 22 in any desired manner as a back. Both ends of the back member may be encased in rubber tubes beneath the tray, and the studs 17 preferably terminate in rubber pads. The leg member is shown as consisting of two crossed and connected tubes but the connection may be omitted in favor of two separate components if desired.

It will be noted that in erected position the U-shaped seat member 14 and the U-shaped back member 22 are disposed in substantially parallel relation and that the length of the link connection is substantially equal to the length of the upright ends of the leg member above the pivots 15 by which the seat member is connected there-

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to. Both arms of the back member 22 are recessed to receive the teeth 12 and when the members are rocked into their erected position the teeth 12 are forced by lever action into the appropriate recesses. Then when the studs 17 are tightened against the table top the interlocked teeth and recesses are held against this disengagement by lever action through the clamps 19 and 21.

Having thus disclosed our invention what we claim as new and desire to secure by Letters Patent of the United States is:

1. A child's collapsible chair comprising an upright leg member, a U-shaped seat member pivotally connected to the leg member below its upper end and having upturned free ends for engaging the underside of a table top, a U-shaped back member having a pivoted link connection to the seat member and forwardly projecting arms for engaging the upper surface of the table top, and interlocking elements presented by the upper end of the leg member and the back member.

2. A collapsible chair comprising a leg member having horizontally spaced parallel ends, a U-shaped seat member pivoted to said leg member below said ends, and a U-shaped back member located above the seat member and having pivoted link connections with the seat member and being provided with recesses to receive the spaced upper ends of the leg member.

3. A folding chair comprising an upright leg member having a pair of free spaced upper ends, a seat member pivoted thereto at points below its upper end and having itself upturned ends, a back member, and pivoted links connecting the back member and seat member at points between the upturned ends of the seat member and its points of connection with the leg member, whereby pressure against the upturned ends of the seat member will force the back member against the free ends of the leg member.

4. A detachable folding chair comprising U-shaped seat and back members extended at their free ends to clamp a table top between them, an intermediate pivoted link connection between said members, and a leg element pivotally connected to the seat member and movable to engage the back member by lever action.

JAMES W. HODGSON.
GEORGE F. VIGNEAU.

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