March 15, 1927. 1,621,367

O. HAWKINS

COLLAPSIBLE CHAIR AND SWING

Filed April 23, 1923 2 Sheets-Sheet 1

Fig. 1.

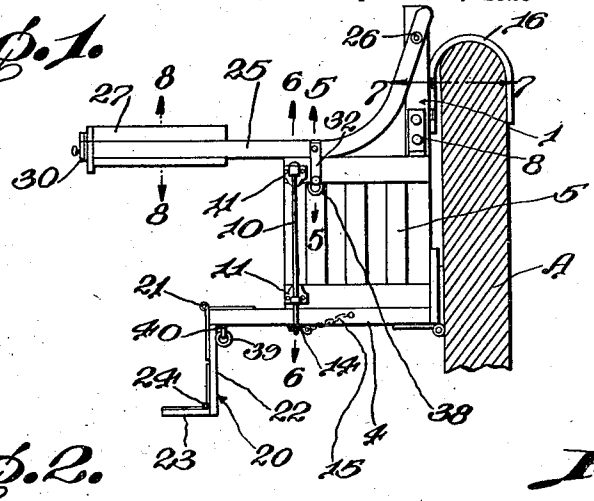


Fig. 2.

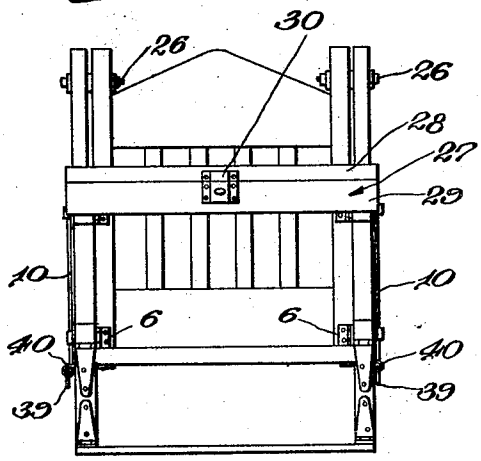


Fig. 3.

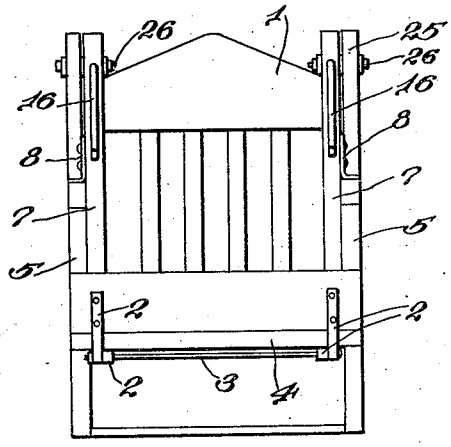
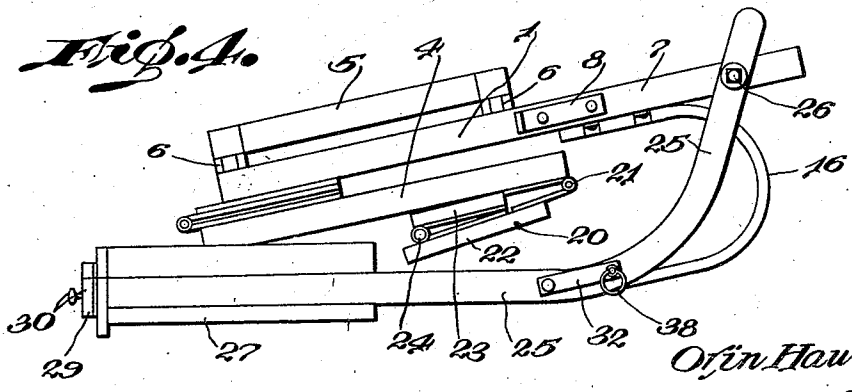


Fig. 4.



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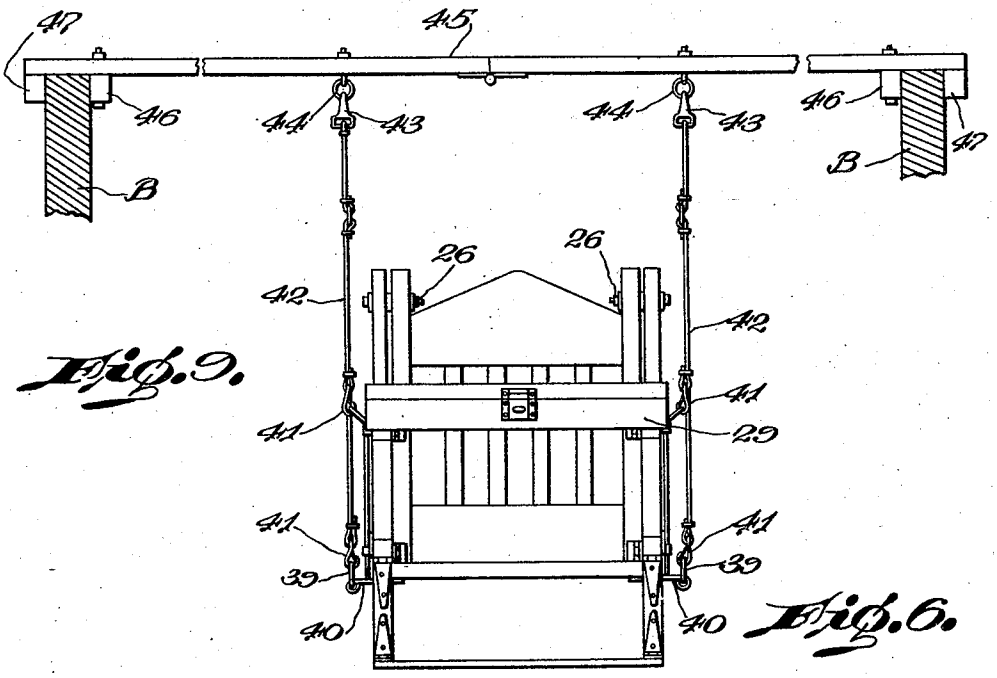


Fig. 9.

Fig. 6.

Fig. 5.

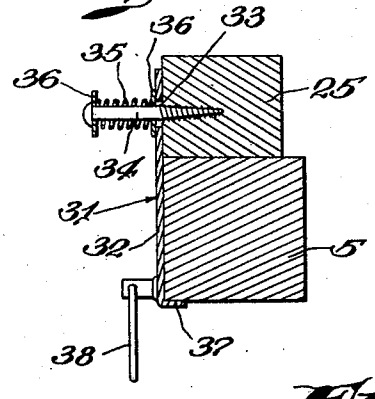
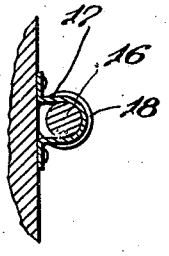


Fig. 7.



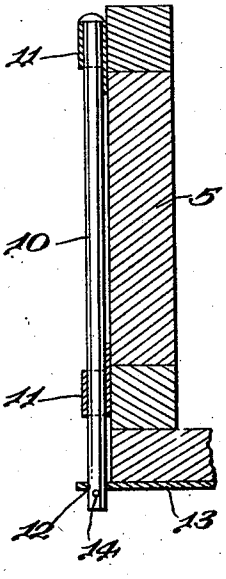
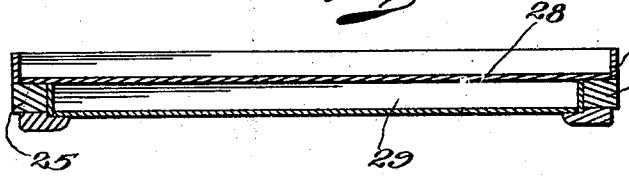


Fig. 8.



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Patented Mar. 15, 1927. 1,621,367

UNITED STATES PATENT OFFICE.

ORIN HAWKINS, OF WAUKEGAN, ILLINOIS.

COLLAPSIBLE CHAIR AND SWING.

Application filed April 23, 1923. Serial No. 634,128.

This invention relates to children's chairs, and an object of the invention is to provide a child's chair which may be collapsed into a comparatively compact construction to permit it to be carried from place to place, such a chair being particularly adaptable when the parents of a child are visiting or traveling.

Another object of the invention is to provide a chair as specified which may be supported from the back of an ordinary straight back chair, or may be suspended from a suitable support, to permit its use as a swing.

A further object of the invention is to provide, in a chair as specified novel constructions for holding the various collapsible or hinged parts of the chair in their extended chair forming position, and also to provide a novel form of catch structure for holding the tray and its supporting arms in horizontal operative positions so as to prevent a child from moving the tray upwardly, and spilling the contents therefrom and also so as to prevent the child from falling out of the chair, he being restrained from falling by the tray and its carrying arms.

Other objects of the invention will appear in the following detailed description taken in connection with the accompanying drawings wherein:—

Fig. 1 is a side elevation of the improved chair showing it supported from the back of an ordinary straight back chair.

Fig. 2 is a front elevation of the improved chair.

Fig. 3 is a rear elevation of the chair.

Fig. 4 is a side elevation of the chair showing it collapsed.

Fig. 5 is a detail vertical section on the line 5—5 of Fig. 1.

Fig. 6 is a detail vertical section on the line 6—6 of Fig. 1.

Fig. 7 is a detail horizontal section on the line 7—7 of Fig. 1.

Fig. 8 is a detail section taken on the line 8—8 of Fig. 1.

Fig. 9 is a front elevation of the improved chair showing it supported as a swing.

The improved chair comprises a back structure 1 which is hingedly connected by hinge leaves 2 and a hinge pintle or rod 3 to the seat 4 of the chair in such manner as to permit the back 1 to be folded over towards the undersurface of the seat 4 when the chair is in collapsed position, as shown in Fig. 4 of the drawings. The chair comprises sides 5 which are hingedly connected as shown at 6 to the side posts 7 of the back 1 of the chair for swinging movement in a horizontal plane whereby the sides may be readily folded onto the back or moved to an extended position at right angles thereto. Angled plates 8 are carried by the outer sides of the side posts 7 and engage the upper surfaces of the arms of the sides 5. The sides 5 are held in their open operative position, at right angles to the seat 4 and back 1 by means of locking bolts 10 which are slidable in suitable guides 11 and engage through openings 12 in a reinforcing keeper plate 13 which extends across the undersurface of the seat 4. Cotter pins 14 are inserted through suitable openings in the lower ends of the locking bolts 10 so as to prevent the displacement of the locking bolts and consequently prevent accidental folding of the sides. The cotter pins 14 are connected by means of chains or flexible members 15 to the seat 4.

Hooks 16 are attached to the rear surfaces of the side posts 7 of the back 1, by means of suitable straps 17 and the hooks are preferably covered with sleeves 18 of any suitable type of cushioning material, such as rubber or the like to prevent abrasion of a chair or other article as indicated at A from which the improved collapsible chair is supported.

A foot rest 20 is hingedly connected by means of hinges 21 to the top of the seat 4 and it comprises the riser 22 and step 23. The step 23 is hingedly connected by means of hinges 24 to the riser 22 so as to permit the foot rest structure to be collapsed against the normal upper surfaces of the seat 4, as shown in Fig. 4 of the drawings.

Tray supporting arms 25 are pivotally connected by means of suitable pivot bolts 26. The arms 25 have a tray 27 carried by their outer ends, which tray extends across in front of the chair, as clearly shown in Figs. 1 and 2 of the drawings. A tray 27 comprises an upper tray proper 28 and a drawer 29 which telescopes in the tray structure and is adapted to hold a child's silverware, bib or any other desired articles. The drawer 29 is held closed by means of any approved type of spring catch structure 30 and the arms 25 and tray 27 are held in their proper positions, when the chair is in operative position, as shown in Fig. 1 of the drawings by means of suitable lock structures 31. It will be noted by reference to Figs. 1 and 5

of the drawings that portions of the arms 25 rest upon the upper surfaces of the arms of the sides 5, thereby providing supports for the arms 25 and the tray 27.

The lock structures 31 comprise locking plates 32 which are provided with relatively large openings 33. The openings 33 receive therethrough screws 34, which are carried by the arms 25 and project laterally therefrom. Springs 35 are coiled about the screws 34 and engage against washers 36 one of which abuts the locking plate 32 for holding the locking plate tightly against the arm 25. The spring 35 is provided to permit the locking plate 32 to be moved outwardly to move its angled end 37 from beneath the arms of the sides 5 so as to permit unlocking engagement between the arms 25 and the sides.

Rings 38 are carried by the locking plates 32 and similar rings 39 are carried by plates 40 which are attached to the undersurface of the seat 4 adjacent its forward edge. The rings 38 and 39 are provided to permit the attachment thereto of snap fasteners 41 of approved construction. The snap fasteners 41 are carried by suitable flexible suspending members 42 which are in turn connected through the medium of snap fasteners 43 and rings 44 to a supporting bar 45 to permit the chair to be supported as a swing. The supporting bar 45 is constructed of hingedly connected sections as clearly shown in Fig. 9 of the drawings so as to permit it to be collapsed if desired, and it has suitable blocks 46 detachably carried thereby, which cooperate with rigid blocks 47 for engaging over suitable supports such as the backs of two chairs, as indicated at B, for supporting the bar 45 to permit supporting of the chair as a swing.

It is, of course, to be understood that the invention may be constructed in other manners and the parts associated in different relations and, therefore, I do not desire to be limited in any manner except as set forth in the claim hereunto appended.

Having thus described my invention what I claim is:—

A chair of the character described including a seat, a back portion, sides hinged to the back portion and operatively resting on the edges of the seat, a movable tray including supporting arms pivotally connected at one end to the upper end of the back and their other ends operatively resting on the upper edges of said sides, supporting pins carried by the arms, locking plates carried by said pins, coil springs on the pins normally urging the plates toward the arms and one end of said plates having normal engagement with the sides to prevent movement of the arms relative to the sides.

In testimony whereof I affix my signature.

ORIN HAWKINS.