Dec. 23, 1947. R. S. CASS 2,433,090

LATERALLY FOLDING CHILD'S CHAIR

Filed Oct. 17, 1945 2 Sheets-Sheet 1

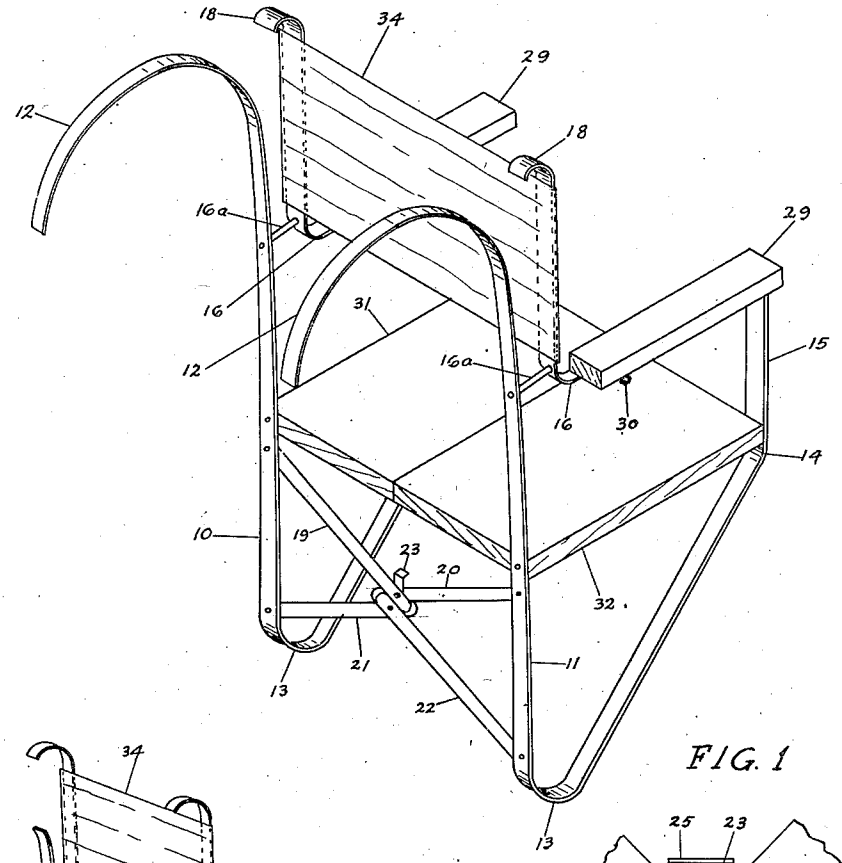


FIG. 1

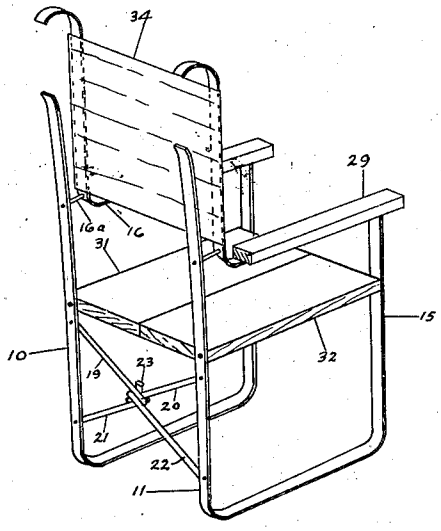


FIG. 7

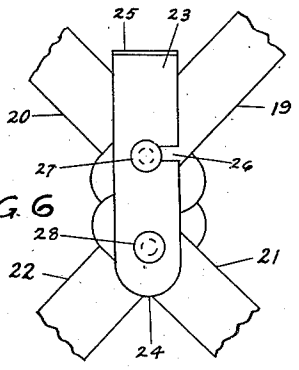


FIG. 6

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LATERALLY FOLDING CHILD'S CHAIR

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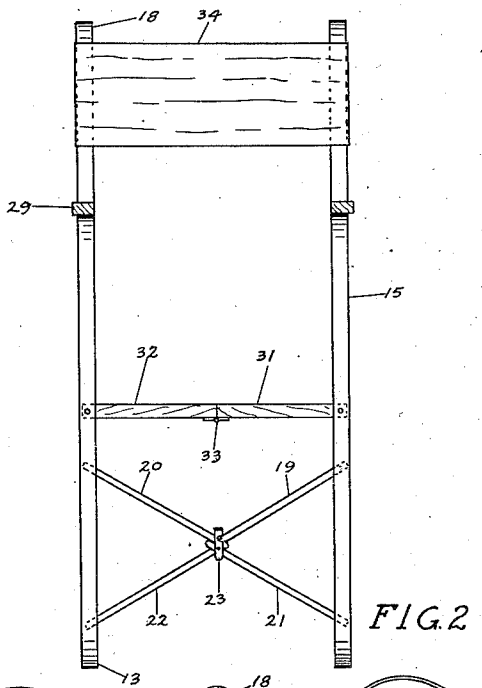


FIG. 2

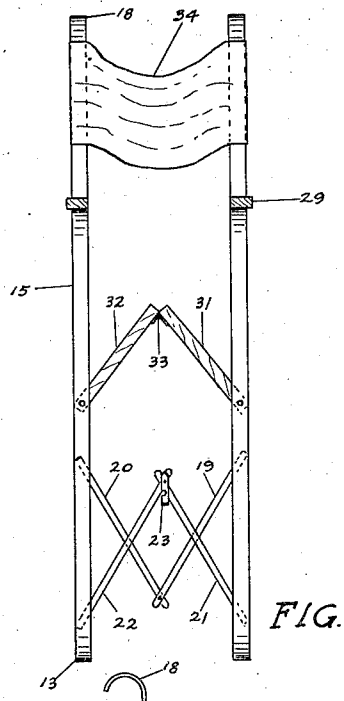


FIG. 3

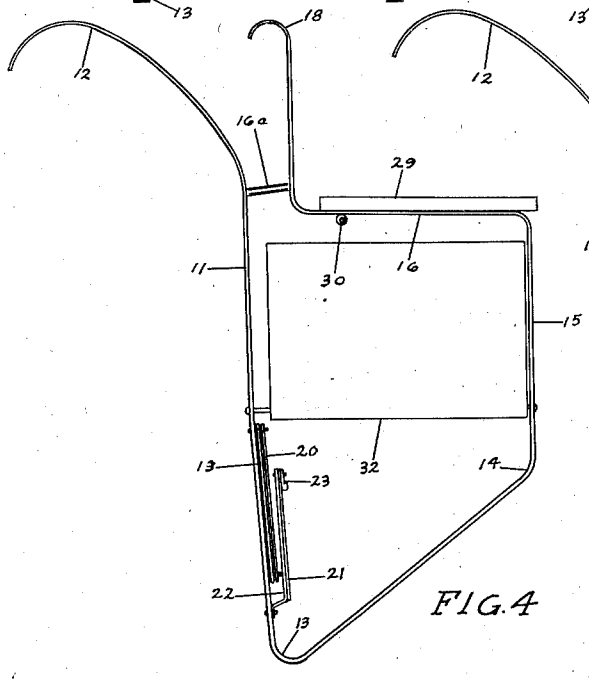


FIG. 4

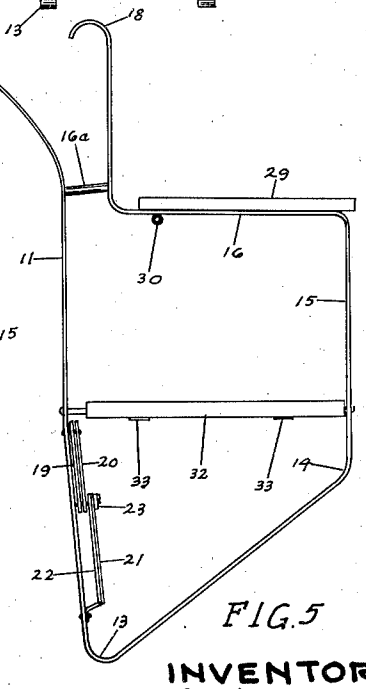


FIG. 5

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LATERALLY FOLDING CHILD'S CHAIR

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Application October 17, 1945, Serial No. 622,788

2 Claims. (Cl. 155—140)

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The invention relates to improvements in folding chairs as described in the present specification and illustrated in the accompanying drawings that form a part of the same.

The invention consists essentially of the novel features of construction as pointed out broadly and specifically in the claims for novelty following a description containing an explanation in detail of acceptable forms of the invention.

The objects of the invention are to devise a folding chair, one type of which is especially for the use of young children and adapted to be used in an automobile or other vehicles, by hooking over or onto the seat therein, thus providing a comfortable seat for the child and allowing a parent complete freedom; to make a folding chair, that when collapsed, is easily transportable; to construct a folding chair that will be so arranged that, when folded, its two halves will lie flat one against the other thereby reducing the amount of space needed for storing the chair when not in use; to furnish a folding chair for use as deck chairs, bridge chairs, garden chairs, chairs for use in schools, auditoriums, convention halls, or wherever extra chairs are desired that is simple of design, easy to manufacture, of comparatively few parts, and efficient for its purpose.

In the drawings:

Figure 1 is a perspective view of a child's chair in its open position.

Figure 2 is a front view of a child's folding chair in its open position, showing the locking device and hinge under the seat.

Figure 3 is a front view of a child's folding chair in a partly closed position.

Figure 4 is a side view of the chair in its folded position.

Figure 5 is a side view of the chair in its open position.

Figure 6 is an enlarged fragmentary view of the locking device.

Figure 7 is a perspective view of a modified form of the folding chair.

Like numerals of reference indicate corresponding parts in the various figures.

The folding chair consists of side frames, as indicated by the numerals 10 and 11, made of suitable material such as metal, the side frames being constructed exactly similar to one another. Each frame is formed of a single strip of metal having one bent to form an arc or hook 12 and which continues downward for a predetermined distance to form the back portion of the chair, then bent upward at 13 in the shape of a U, forming the leg of the chair, the U bend continuing upwardly at an angle for a predetermined distance where it is again bent, at 14, to continue upwardly for a short distance in a vertical position 15 and then bent back to extend horizontally, this horizontal portion 16 forming the arm rest section and is riveted or otherwise secured at 16a to the rear portion of the frame; the frame is then bent upwardly to form a vertical portion 17, which portion ends in an arc or hook 18.

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The side frames 10 and 11 are joined together by means of a plurality of braces, 19 and 20 and 21 and 22. The upper ends of the braces 19 and 20 being movably fastened to the frames a predetermined distance from the U bend 13 by means of bolts, while the lower ends of the braces 21 and 22 are movably fastened to the frames a short distance above the U bend 13. A locking device 23 is formed of a short piece of metal having one end rounded at 24 and the other end being bent outwardly to form a finger grip portion 25, and provided with an elongated cut-out portion 26 in one edge.

The inner ends of the braces 19 and 20 are crossed and movably fastened together by suitable means, such as a bolt 27. The inner ends of the braces 21 and 22 are crossed and the rounded end 24 of the locking device 23 placed flat against the intersection of the crossed braces and all movably fastened together by means of a bolt 28. When the frames are opened, the braces come together and the locking device 23 is moved up, the cut-out 26 engaging with the bolt 27 and thereby securely holding the braces in a rigid position, keeping the chair open. To close the chair, the member 23 is disengaged from the bolt 27, allowing the braces to fold back against the frames 10 and 11.

The arm rests 29, made of wood or other suitable material, are securely fastened to the arm rest sections 16 of the frames by suitable means, such as screws or bolts at the front end of the arm rest, and by means of eyelet screws 30 at the opposite end, the head or ring part of the screw being underneath and forming means for attaching a safety band or belt to hold the child in the chair, and providing greater safety when in a moving vehicle.

The chair seat consists of two sections 31 and 32 made of wood or other suitable material and hingedly secured together at 33 and fitting lengthwise between the side frames 10 and 11 and are secured thereto by means of bolts or other fasteners.

A piece of canvas or other suitable material forms a back rest 34 to the folding chair, said piece of canvas or other material having a hem at

either end, said hem being slightly wider than the vertical portions 17 and which engage with vertical portions 17.

In the modified form the folding chair is adapted for use by adults or children, and is placed on the ground, etc., and the only variation in structure is in the legs or resting part of the frames, and which extend from the back portion in a wide U turning up to form the frame as above described. This type of folding chair may be formed without the hook attaching portion of the child's chair.

The chair is very easily folded or opened. To open, the frames are grasped and pulled apart, the braces 19, 20, 21 and 22 of the frames are pulled down until the locking device comes in place and the two sections of the chair seat fold down. The locking device is secured and the chair is ready for use.

What I claim is:

1. A folding chair comprising a pair of side frames, each frame being made of a single strip of rigid material having one end in the form of a hook and extending downwardly to form a leg member, outwardly and upwardly therefrom to form a support for a seat, rearwardly from a point above said seat support to form an arm rest support, and upwardly from said arm rest support to form a back rest support, braces connecting the rear portions of said frames to one another, means for detachably locking together the ends of said braces, a seat comprising longitudinally hinged sections secured to said frames and collapsible therewith, and a back rest of pliable material secured to said frames and collapsible therewith.

2. A folding chair comprising a pair of side frames each frame being made of a single strip of rigid material curving downwardly to form a rear leg member, forward and upwardly to form a floor support and a front leg member, upwardly and rearwardly to provide a seat support and an arm rest support and upwardly therefrom to form a back rest support, a plurality of braces having their outer ends movably secured to said frames, a locking device pivotally secured to the inner ends of certain of said braces and having a slotted portion adapted to engage the inner connected ends of the other said braces, a seat comprising longitudinally hinged sections secured to said frames, and a back rest of pliable material secured to said frames.

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