Nov. 10, 1953 H. FLEISHER ET AL 2,658,556

CHILD'S SEAT

Filed Nov. 17, 1948

FIG. 1.

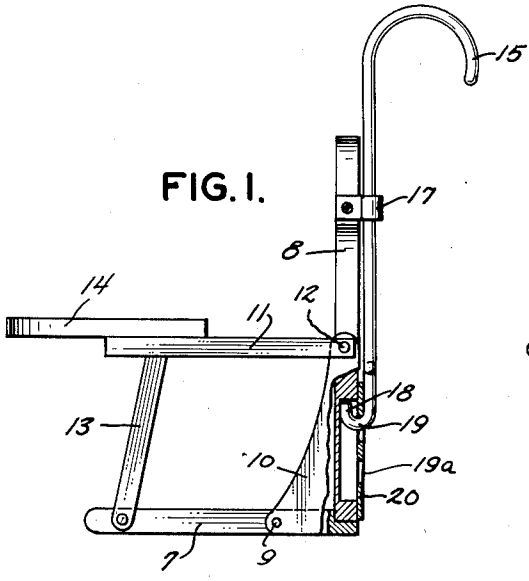


FIG. 2.

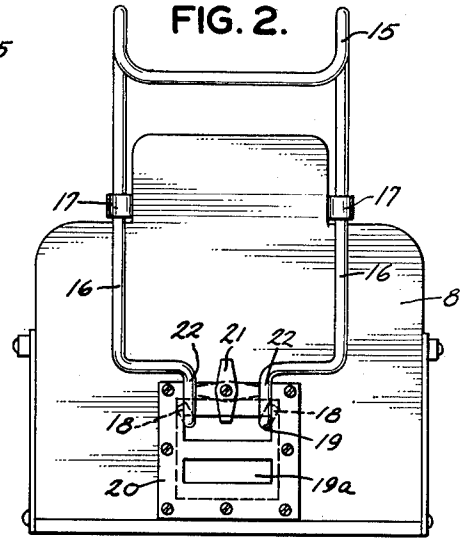


FIG. 3.

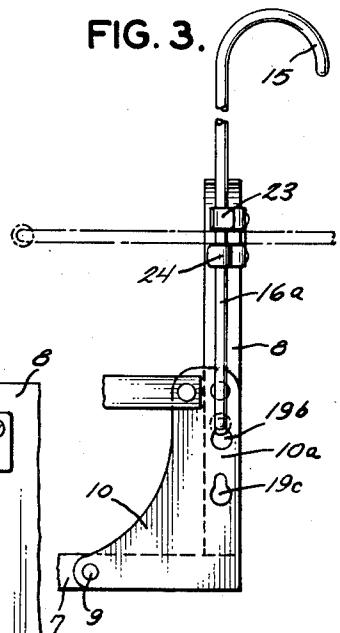


FIG. 4.

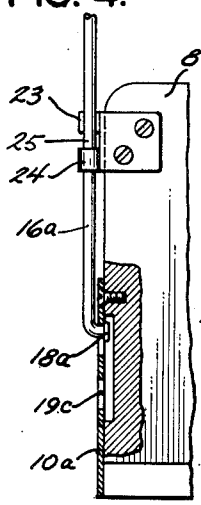


FIG. 5.

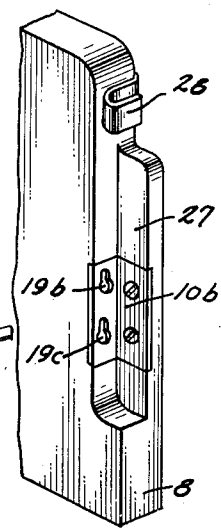
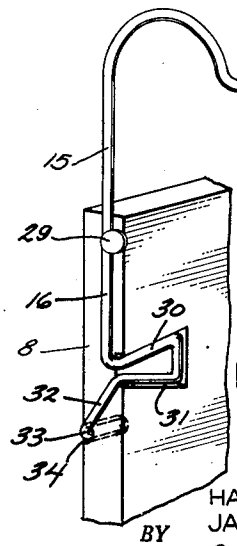


FIG. 6.



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CHILD'S SEAT

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3 Claims. (Cl. 155—79)

1

The invention herein disclosed is a child's seat of the type adapted to be hung over the back of a chair, the back of an automobile seat or other such support.

Special objects of the invention are to provide a seat construction which will be held securely, firmly and safely in its suspended relation and which may be quickly and easily adjusted to different desired height relations.

Other special objects of the invention are to accomplish such results in a simple, practical and inexpensive form of construction, capable of being easily taken apart or collapsed when not in use or for storage or shipment or other purposes.

Other desirable objects and the novel features through which all purposes of the invention are attained are set forth or will appear in the course of the following specification.

The drawing accompanying and forming part of the specification illustrates the invention as embodied in several different forms, but it is appreciated that structure may be further modified and changed, all within the true intent and scope of the invention as hereinafter defined and claimed.

Fig. 1 in the drawing is a broken and part sectional side elevation of one of the seats showing it set up and ready to be hung over the back of a chair or other support;

Fig. 2 is a rear elevation of the seat;

Fig. 3 is a broken side elevation showing a modified form of the invention;

Fig. 4 is a broken sectional view illustrating details of the Fig. 3 form of construction;

Fig. 5 is a perspective detail view of a further modified form of the invention;

Fig. 6 is a broken perspective detail of a further modification.

The structure shown in Figs. 1 and 2 comprises a seat board 7 having a back board 8 hinged thereto at 9 by means of the triangular end plates 10 and arm rests 11 pivoted to the back at 12 and to the seat by means of pivot links 13.

The arm rests are shown as carrying a tray 14, and the whole constitutes a structure which can be folded into substantially flat condition.

This folding seat construction is supported by special suspension means shown as consisting of a loop of spring wire or rod bent at the top to form a hook 15 for engagement over a chair back or the like and having spaced, substantially parallel side arms 16 caught in front of the hooks 17 at the sides of the back and terminating in upwardly and outwardly angled hooks 18 caught under the edge of an opening 19 in the plate 20 secured on the back of the back board.

2

The spring hanger described is tensioned so that the side arms 16 tend to separate, thus to cause the hooks 18 at the lower ends of the same to be held outwardly in gripping engagement in the outer corners of the opening 19 in the plate 20. This outward tensioning of the side arms also causes them to remain interlocked in the retaining hooks 17 at the upper portion of the back.

This relation also prevents the suspension hook and back from tipping, one in respect to the other, and provides the effect of a firm three-point suspension between the support with which the hook is engaged and between the latter and the back structure. At the same time the hook can be quickly and easily disengaged from the back by springing the side arms inward until the outwardly angled terminals 18 can be unhooked from the opening 19 in the plate 20.

To prevent accidental collapse and release of the hook terminals, a turnbutton is shown at 21 pivoted on the plate 20 between the inwardly offset portions 22 of the side arms. In the horizontal position this turnbutton locks the side arms in their spaced apart relation interlocked with plate 20, whereas in the vertical position the turnbutton permits intended release of hooks 18 from the plate 20.

While the inwardly offset end portions 22 of the side arms are preferable, enabling use of a smaller size supporting plate 20 and having other advantages, it is contemplated that the side arms 16 may be straight for their full length or, if desired, may be outwardly instead of inwardly angled at their lower ends to give them a wider hold on the seat structure.

To provide for certain vertical adjustment of the seat in respect to the supporting structure, the plate 20 may have a series of slots for engagement of the supporting hook, as indicated at 19*a*, so that the seat may be supported at a relatively higher level than first illustrated.

In the form of the invention shown in Figs. 3 and 4, the arched supporting hook 15 is made with straight side arms 16*a* spaced apart the full width of the back 8 and having upset or headed inwardly angled lower ends 18*a* engageable in either higher or lower keyhole slots 19*b*, 19*c*, in the end plates 10*a*.

To retain the supporting hook in vertical relation at the sides of the back, it is shown as engaged and held between rearwardly and forwardly faced hooks 23, 24, at the side edges of the back, each pair of such hooks being spaced at 25 a distance greater than the diameter of the supporting hook, enabling the sides of the latter to

be entered horizontally between the pairs of hooks as in Fig. 3 and then turned into vertical position with its lower ends hooked into the keyhole openings in the side plates.

This also provides a quickly removable and replaceable, safe and firm connection between the supporting hook and seat structure, adjustable for height of the seat, as required.

Fig. 5 illustrates a modification of the last described form of the invention, in which the plates **10***b* carrying the keyhole openings **19***b*, **19***c*, are set inward in the side edges of the back on inwardly shouldered edges and the side arms of the frame rest against a back flange **27** when they are sprung behind the inwardly faced hooks **28** near the top of the back.

In all forms of the invention, after the double supporting hook has been engaged with the back, the latter is firmly suspended without possibility of its tilting forwardly or rearwardly, so that no motions of the child will have any effect toward loosening the seat from the hanger.

While preferably made of spring wire or rod material, it is possible that the hanger may be made of flat strip stock or other material.

The structure, while particularly effective and practical, is relatively light in weight, takes up but little space and can be produced at low cost.

The spring arch formation of the hanger causes it to closely hug the back member and to remain interlocked therewith. The enlarged lower ends of the side arms, whether produced by bending as at **18** in Figs. 1 and 2 or by upsetting as in Figs. 3 and 4, enables the hanger to be quickly and firmly caught to the back and to be as easily removed when that becomes necessary or desirable.

Fig. 6 illustrates a simplified form of the invention in which the hanger is attached to the back by engaging the side arm portions **16** of the same under headed detents **29** and slipping the angularly extended looped portions **30** of the same into grooves **31** in the face of the back, the end portions **32** extending angularly across to the side faces of the back and having angularly bent terminals **33** engaging in grooves **34**.

This provides an integral form of quickly attachable and releasable connection between the back and hanger.

What is claimed is:

1. A child's seat as herein disclosed comprising a back member having vertically spaced openings and an attachable and detachable hanger for suspending said seat over the back of a chair or the like and comprising upright side portions in the shape of a hook to hang over the back of a chair or like support, said side portions having angularly extended lower ends arranged to enter selected openings of said vertically spaced openings in the back member to thereby support said back member at different selected levels of the chair back, interlocking means formed on said angularly extended lower ends of the side portions and in said openings to lock the lower ends of said side portions of the hanger in position and hook elements on the back member above said openings and positioned to embrace said side portions when the angularly extended lower ends of the latter are engaged in said openings as described, whereby to removably secure said hanger to the back member in any of the several positions of vertical adjustment described.

2. A child's seat as herein disclosed comprising a back member having vertically spaced openings and an attachable and detachable hanger for suspending said seat over the back of a chair or the like and comprising upright side portions connected together at the top to form an arch and the top of said arch bent backward in the shape of a hook to hang over the back of a chair or like support, said side portions having angularly extended lower ends arranged to enter selected openings of said vertically spaced openings in the back member to thereby support said back member at different selected levels of the chair back, and hook elements on the back member above said openings and positioned to embrace said side portions when the latter are engaged in said openings as described, whereby to removably secure said hanger to the back member in any of the several positions of vertical adjustment described, said openings being disposed at opposite side edges of said back member, said side portions of the hanger being laterally spaced to lie along said opposite side edges and the angled lower ends of said side portions being extended inwardly to enter in said openings at the opposite side edges of the back member.

3. A child's seat as herein disclosed comprising a back member having vertically spaced openings and an attachable and detachable hanger for suspending said seat over the back of a chair or the like and comprising upright side portions connected together at the top to form an arch and the top of said arch bent backward in the shape of a hook to hang over the back of a chair or like support, said side portions having angularly extended lower ends arranged to enter selected openings of said vertically spaced openings in the back member to thereby support said back member at different selected levels of the chair back, and hook elements on the back member above said openings and positioned to embrace said side portions when the latter are engaged in said openings as described, whereby to removably secure said hanger to the back member in any of the several positions of vertical adjustment described, said openings being disposed at opposite side edges of said back member, said side portions of the hanger being laterally spaced to lie along said opposite side edges and the angled lower ends of said side portions being extended inwardly to enter in said openings at the opposite side edges of the back member and said hook elements including rearwardly and forwardly faced hooks on the opposite side edges of said back member and spaced one above the other a distance at least equal to the diameter of the side portions of the hanger whereby to admit said side portions with the hanger disposed in a horizontal position and whereupon said hanger may then be turned into an upright position with the side portions held between the rearwardly and forwardly faced hooks and the inwardly extended angled lower ends engaged in selected openings on the back member.

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