

May 24, 1938.

T. E. HEINRITZ

2,118,509

CHAIR

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Fig. 2

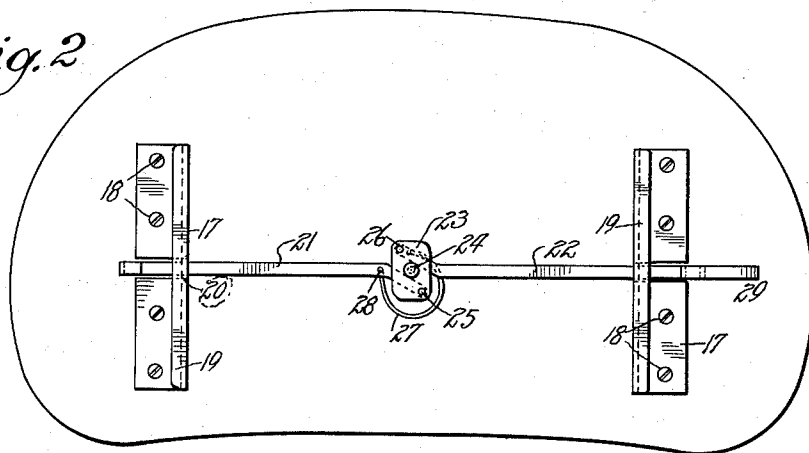


Fig. 3

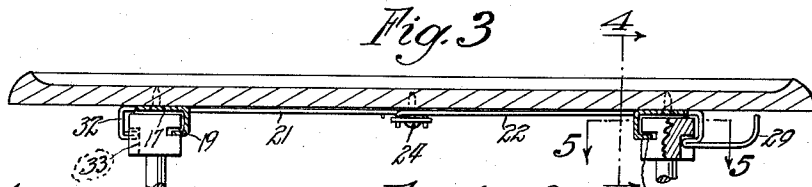


Fig. 1

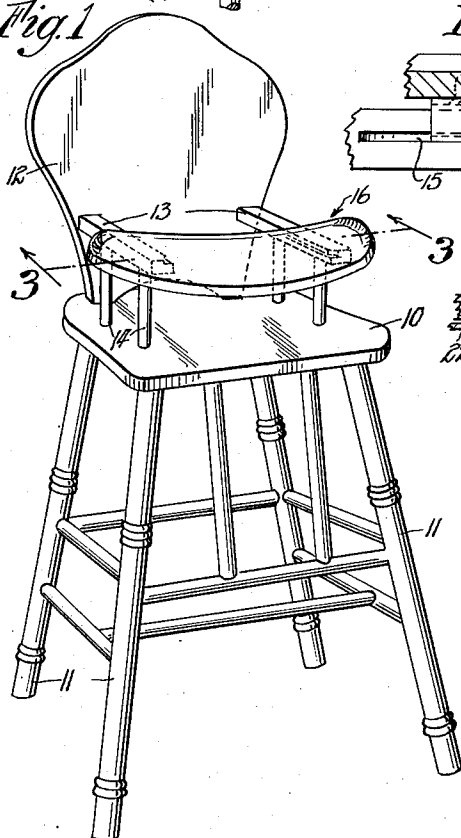


Fig. 4

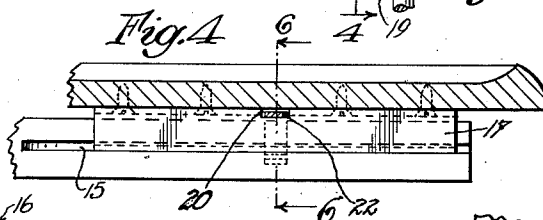


Fig. 6

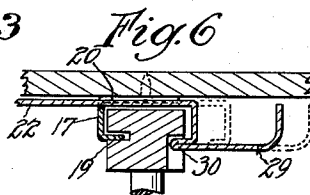


Fig. 7

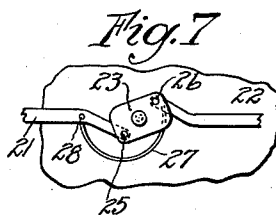
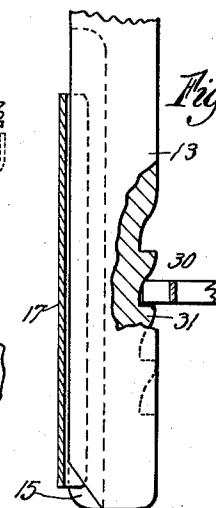


Fig. 5



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UNITED STATES PATENT OFFICE

2,118,509

CHAIR

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Application May 25, 1937, Serial No. 144,648

3 Claims. (Cl. 155—127)

The invention relates to chairs and more particularly to high chairs. It is an object of the invention to provide a high chair with a tray which can be conveniently adjusted or removed for cleaning purposes.

A further object aims at providing inexpensive and yet effective means for permitting adjustment of the tray and releasably locking said tray in adjusted position.

Another object aims at providing adjustment means for a tray which facilitates complete removal of the tray.

Other equally important objects will become apparent from a perusal of the invention comprising the means described in the following specification, particularly pointed out in the claims forming a part thereof, and illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of a high chair constructed in accordance with my invention.

Fig. 2 is a bottom plan view of the tray.

Fig. 3 is an enlarged section on the line 3—3 of Fig. 1.

Fig. 4 is an enlarged fragmentary section on the line 4—4 of Fig. 3.

Fig. 5 is an enlarged section on the line 5—5 of Fig. 3.

Fig. 6 is an enlarged section on the line 6—6 of Fig. 4, and

Fig. 7 is a fragmentary bottom plan view of the tray showing the links in separated position.

The high chair comprises a seat 10 supported by legs 11 and equipped with a back 12. Side arms 13 are supported by rungs 14 and are provided with longitudinal grooves 15 extending on the inner side from the forward end to a point midway of the arms.

A tray, generally designated by 16, is adapted to rest on the arms 13 and is provided on the underside with angle irons 17 secured to the tray by a plurality of screws 18 and having its depending leg turned in to provide a flange 19, which enters the groove 15 of the adjacent arm. Each angle iron is formed at the center with a slot 20 extending the entire length of the horizontal leg to provide clearance for links 21 and 22.

The link 21 is secured to a center plate 23 pivotally supported from the underside of the tray by a screw 24 or other securing means, and the link is articulated to the remote end of the plate 23 as at 25. Likewise, the link 22 is articulated to the remote end of the plate as at 26. A spring 27 connects the joint between the link 22 and the plate 23 with the link 21 at the point 28 so that the links are normally held in contracted position.

The link 22 is formed at the outer end with a handle 29 which has a tongue 30 to cooperate with teeth 31 on the outer side of the adjacent

arm 13. The link 21 is provided with a hooked end 32 adapted to enter a groove 33 in adjacent arm 13.

In use, the handle 29 is pulled outwardly whereby the links are separated so that the tongue 30 and the hook 32 are released from the appertaining grooves and the tray may be slid forwardly and rearwardly for adjustment.

The tray may be completely removed from the chair, if desired, when the same is to be cleaned. Upon release of the handle 29, the links 21, 22 are pulled together under the action of spring 27.

While the drawing shows a preferred embodiment of the invention, numerous changes and alterations may be made without departing from the spirit of the invention.

I, therefore, do not limit myself to the details of construction and arrangement, as shown, but wish to include all changes, modifications and revisions constituting departures within the scope of the invention, as defined in the appended claims.

I claim:

1. In combination with a high chair having side arms, a tray superposed on said arms, angle irons secured to the underside of said tray, each angle iron having a flange extending into a groove provided on the inner side of the adjacent arm, a pair of links movably secured to said tray, each link extending through a slot in the adjacent angle iron and provided with a hook to engage a groove on the outer side of the adjacent arm, and means for normally maintaining said links in arm engaging position.

2. In combination with a high chair having side arms, a tray supported on said arms, guide members secured to the underside of said tray and engaging said side arms, a pair of links movably secured to said tray, each of said links extending through a slot in the adjacent guide member, one of said links having a hook to engage a groove on the outer side of the adjacent arm, the other of said links having a tongue in engagement with a rack provided on the adjacent side arm, and resilient means for maintaining said links in arm engaging position.

3. In combination with a high chair having side arms, a tray supported on said arms, guide members secured to the underside of said tray and engaging said side arms, a pair of links movably secured to said tray, each of said links extending through a slot in the adjacent guide member and provided with a hook to engage a groove on the outer side of the adjacent arm, a handle secured to one of said links, and spring means for normally maintaining said links in arm engaging position.

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