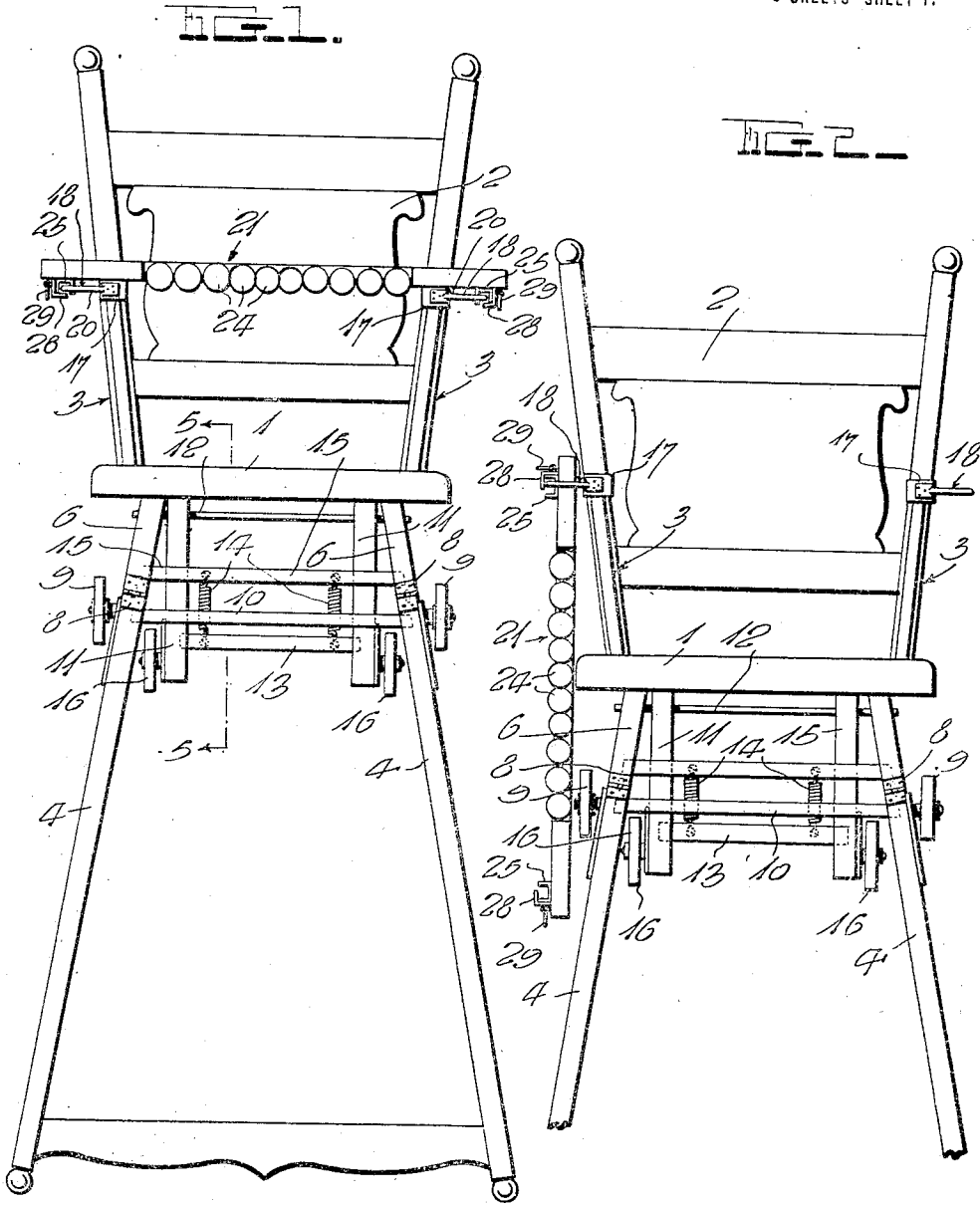


T. ERNST.
NURSERY CHAIR,
APPLICATION FILED AUG. 26, 1920.

1,371,475.

Patented Mar. 15, 1921.
3 SHEETS—SHEET 1.



Inventor

T. Ernst

Witness
H. Woodard

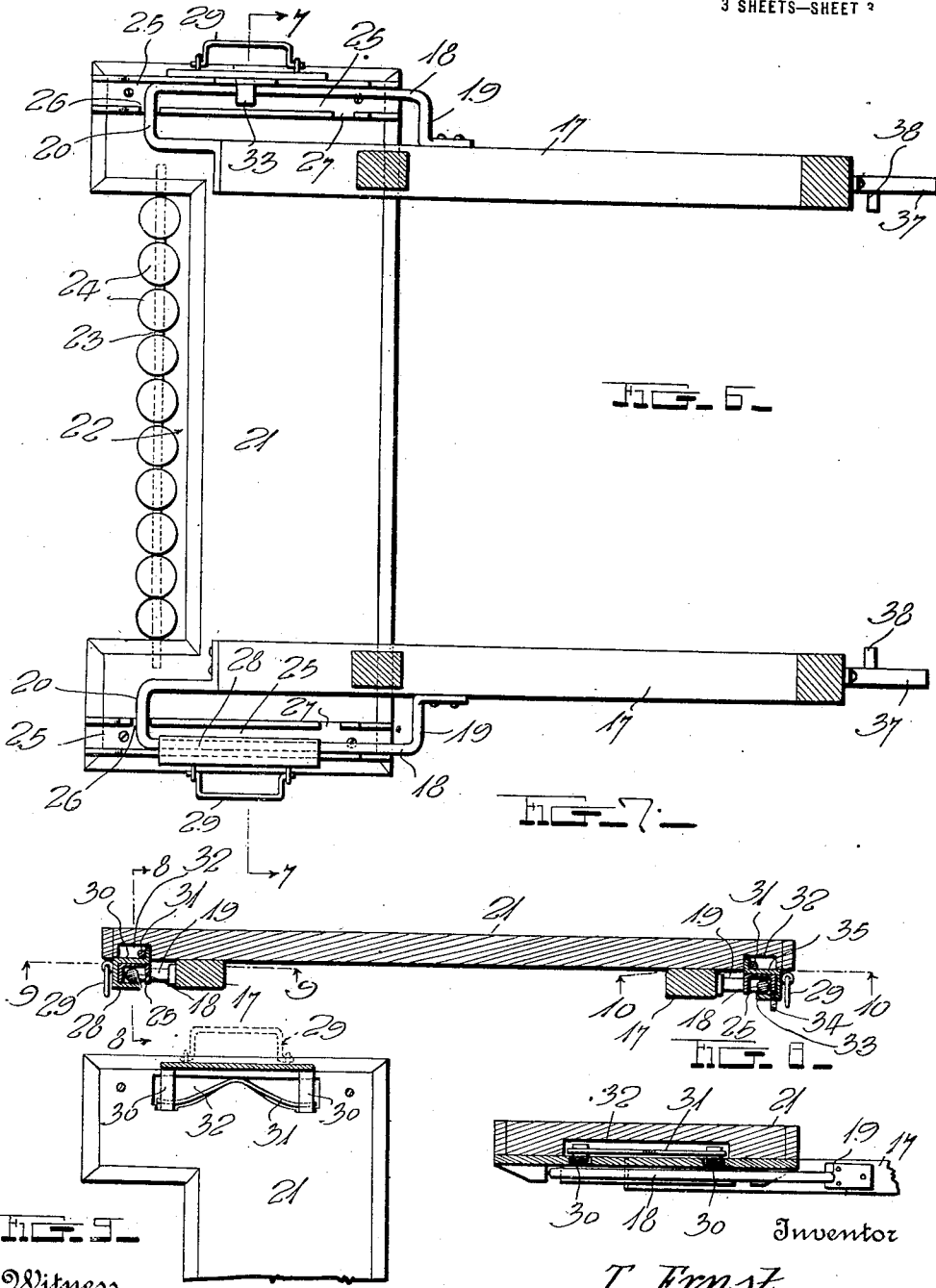
By *H. W. Wilson*
Attorneys

T. ERNST.
 NURSERY CHAIR.
 APPLICATION FILED AUG. 26, 1920.

1,371,475.

Patented Mar. 15, 1921.

3 SHEETS—SHEET 2



Witness
 H. Woodards

Inventor
 T. Ernst

By *A. B. Wilson*
 Attorneys

UNITED STATES PATENT OFFICE.

THEODORE ERNST, OF BAYFIELD, WISCONSIN.

NURSERY-CHAIR.

1,371,475.

Specification of Letters Patent. Patented Mar. 15, 1921.

Application filed August 26, 1920. Serial No. 406,218.

To all whom it may concern:

Be it known that I, THEODORE ERNST, a citizen of United States of America, residing at Bayfield, in the county of Bayfield and State of Wisconsin, have invented certain new and useful Improvements in Nursery-Chairs; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to nursery chairs for use in a nursery, and one object of the invention is to provide a chair which may be used as a high-chair and which may also be used as a combined chair and table when turned to a lowered position. Another object of the invention is to provide the high-chair with an improved type of tray which may be firmly held in place across the chair and may be entirely disconnected from the arms of the chair or only disconnected from one arm and then swung to one side where it will hang at the side of the chair. Another object of the invention is to so construct the tray and locking means that it may not move out of the proper position when in use. Another object of the invention is to so construct the latch mechanism for the tray that it may be easily moved to a released position but at the same time so constructed that it will normally remain in an active position and serve to very securely hold the tray in place.

This invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a view showing the improved chair in front elevation;

Fig. 2 is a view similar to Fig. 1, showing the tray swung to one side and suspended from the arm rail of the chair;

Fig. 3 is a view showing the chair in side elevation with the tray in place;

Fig. 4 is a view showing the chair in side elevation with the tray removed and supported upon brackets carried upon the back of the chair;

Fig. 5 is a fragmentary sectional view taken on the line 5—5 of Fig. 1;

Fig. 6 is an enlarged sectional view taken on the line 6—6 of Fig. 3;

Fig. 7 is a sectional view taken on the line 7—7 of Fig. 6;

Fig. 8 is a sectional view taken on the line 8—8 of Fig. 7;

Fig. 9 is a sectional view taken on the line 9—9 of Fig. 7;

Fig. 10 is a view similar to Fig. 9 showing a section taken on line 10—10 of Fig. 7.

This chair is provided with an improvement over the chair disclosed in my prior Patent #1,277,888, issued September 3, 1918. This prior patent shows the general arrangement of chair provided with the supporting structure which may be folded to a lowered position or used in the set up position and further shows the arms carried by the upper portion beneath the chair seat and serving as locking means to retain the chair in the set up position. The prior patent does not however show the improved tray disclosed in the accompanying drawings and shows an arrangement of springs for the latching arms somewhat different from the present disclosure.

This chair is provided with a seat 1 having a back 2 and arms 3. The arms and back are of a conventional construction and the seat 1 is mounted upon supporting legs 4 and 5 which have their upper portions 6 and 7 cut from the lower portion. Hinges 8 are provided to connect the upper sections 6 with the lower sections of the forward legs 4 and it will thus be seen that the upper portion of this chair will be hingedly connected with the lower portion thus permitting it to be swung out of the position shown in Figs. 3 and 4. The legs 4 and 5 will be braced after the manner disclosed in the prior patent and the legs 5 are provided adjacent their ends with rollers 9 which serve as supporting rollers when the chair is in a lowered position. A cross bar 10 extends between the upper end portions of the legs 5 and serves as a bar for engagement by the latching arms 11 which are pivotally mounted upon the rod or pivot pin 12 and are connected by a cross bar 13. The latching arms are yieldably held in an operative position by the springs 14 which are connected to this cross bar 13 and with the cross bar 15 carried by the upper sections 7 of the legs 5 and the latching arms carry rollers 16 forming supporting rollers when the chair is in the lowered position. It will thus be seen that the latching arms will be normally held in an operative position but may be swung out of the operative position when desired. This portion of the chair is very similar to that which is disclosed in the

prior patent, the main difference residing in the arrangement of springs for retaining the latching arms in the operative position.

The arms 3 are provided with head-rails 5 or bars 17, and a rod 18 is connected with each of these head rails 17 and positioned to one side thereof as shown in Fig. 7. Each of these rods 18 has one end portion 19 connected with the side of the head-rail and has 10 its opposite end portion bent to provide a side arm 20 which in its turn is bent back toward the outer end of the head-rail 17 and connected with the free end of this head-rail. It will thus be seen that the rods 15 18 extend beyond the forward end of the head-rail of the chair arms.

The tray 21 will extend transversely of the chair and rest upon the head-rails 17 of the arms and has its end portions extended beyond the arms and its forward portion extending beyond the forward ends of the arms. The forward end portion of this tray is cut out to provide a recess or pocket 22 in which will be positioned a rod 23 having balls 24 loosely mounted thereon. A channel bar 25 is provided beneath each end of the tray to receive the rod 18 and these channel bars 25 have their inner flanges provided with notches 26 and 27. The 30 notches 26 are provided to receive the arms 20 of the rods 18 and it will thus be seen that the tray can be put in place and will rest back upon the head-bars or head-rails of the chair arms. Latching strips 28 are provided to releasably prevent the tray from being removed from the arms of the chair and each is provided with a handle 29 thus permitting the latches to be easily removed to an inoperative position when desired. The 40 latches may have the specific construction shown in the majority of the figures or they may have the modified construction shown in Fig. 10. In the majority of the figures the latch has been shown in the form of an angle strip which extends longitudinally of the channel bar 25 and is provided with arms or fingers 30 which extend between the channel bar and under-face of the tray and terminate in hooked end portions for engaging the end portions of a spring 31 mounted in a pocket 32 formed in the under-face of the tray. The form shown in Fig. 10 is somewhat similar except that instead of being provided with an elongated flange for 45 engaging the rods 18 the latch has been provided with a finger 33 which extends through an eye 34 carried by the channel bar 25, and further the latching strip is provided with a single finger 35 which extends between the latching bar and tray and has its hooked end portion engaging the central portion of the leaf spring 36.

When this chair is in use it will be set up as shown in the drawing and will be retained in this set up position by the latching

arms 11. The tray will be put in place as shown in Figs. 1 and 3 with the latches engaging the rods 18 and thus preventing the tray from slipping off of the arms of the chair. It will be noted that the tray will 70 thus be held against movement transversely of the chair or longitudinally of the arms. When it is no longer desired to use the tray the latch connecting the tray with one arm may be released and the tray swung from 75 the position of Fig. 1 to that of Fig. 2 where it will be suspended from the chair arm to one side of the chair. If so desired the tray can be entirely removed from the arms of the chair and supported behind the chair 80 upon the brackets 37. One of these brackets 37 will be connected with each side of the chair back and it will thus be seen that the tray will be supported at both ends. It is desired to prevent the tray from having longitudinal movement when supported by the bracket and therefore each bracket has been provided with a pin 38 which extends through one of the channel bars 25 and has a turned end which extends out through the 90 notch 27 of the channel bar. Therefore when the tray is in place behind the chair back and the latches released so that they extend across the channel bars 25 the tray will be securely but releasably held in place. 95 The tray will thus be securely but releasably held behind the chair back until it is again desired to use the same. With the tray removed the chair may be left in the set-up position shown or the latches 11 may be released and the chair turned down to rest upon the rollers 9 and 16. 100

What is claimed is:—

1. A chair having side arms, rods carried by and extending longitudinally of 105 the arms and having their forward end portions extended to and connected with the arms, a tray for extending transversely of the chair and resting upon the arms and rods, channel strips carried by the tray 110 with the rods extending through the channel strips and having their forward end portions extending through notches in the side flanges in the channel strips, latches slidably connected with the channel strips 115 for movement transversely thereof, and means yieldably retaining the latches in an operative position.

2. A nursery chair having side arms, rods extending longitudinally of the side arms in 120 spaced relation thereto and having their forward end portions extending beyond the side arms and bent to extend inwardly and rebent and carried to and connected with the forward end portions of the side arms, a 125 tray extending transversely of the chair and resting upon the arms and rods, channel strips carried by the tray and receiving the rods, latches slidably mounted for movement transversely of the channel strips for 130

releasably holding the tray in engagement with the rods, and resilient means yieldably retaining the latches in an operative position.

5 3. A chair including side arms, a tray for extending transversely of the chair and resting upon the side arms, rods carried by the side arms, channel strips carried by the tray for receiving the rods, the rods being
10 bent to extend through notches formed in the sides of the channel strips to hold the tray against movement longitudinally of the rods, and latch means to releasably hold the tray in engagement with the rods.

15 4. A chair including side arms, a tray for extending transversely of the chair and resting upon the side arms, rods carried by the side arms, channel strips carried by the tray for receiving the rods, the rods being bent to
20 extend through notches formed in the sides of the channel strips to hold the tray against movement longitudinally of the rods, and latch means for extending transversely of the channel strips to releasably hold the tray
25 in engagement with the rods, one channel strip and its cooperating rod forming a hinge pivotally mounting the tray for swinging movement transversely of the chair when the tray is released from the
30 second rod.

5. A chair including side arms, a tray, and means for releasably and pivotally connecting the tray with the chair and holding the tray against movement longitudinally
35 of the arms, either of said means forming

a hinge means mounting the tray for swinging movement transversely of the chair when the second means is released.

6. A chair including side arms, brackets carried by the arms and having sections po- 40 sitioned in spaced relation to the arms and extending longitudinally thereof, a tray for extending transversely of the chair and resting upon the arms, channel strips carried by the tray for receiving the sections of 45 the brackets positioned in spaced relation to the arms, and latches movably mounted for extending across the channel strips to releasably and pivotally connect the end portions of the tray with the brackets, the tray 50 when released from either of said brackets being turned upon the second bracket and suspended to one side of the chair and the tray when released from both brackets being 55 bodily removable from the chair.

7. A chair including side arms, brackets carried by the side arms, a tray, channel strips carried by the tray for receiving the brackets when the tray is resting upon the side arms, latch elements for extending 60 transversely of the channel strips having fingers slidably mounted and having hooked end portions, and leaf springs engaging the hooked end portions of said fingers to yield- 65 ably retain the latch elements in an operative position.

In testimony whereof I have hereunto set my hand.

THEODORE ERNST.