Sept. 30, 1952 H. B. LIGHT 2,612,210

INFANT'S TOILET SEAT

Filed July 19, 1947 2 SHEETS—SHEET 1

FIG. 1.

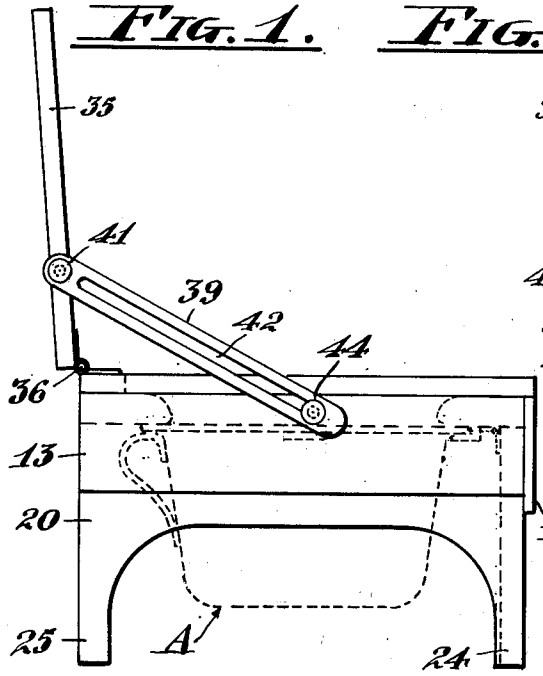


FIG. 2.

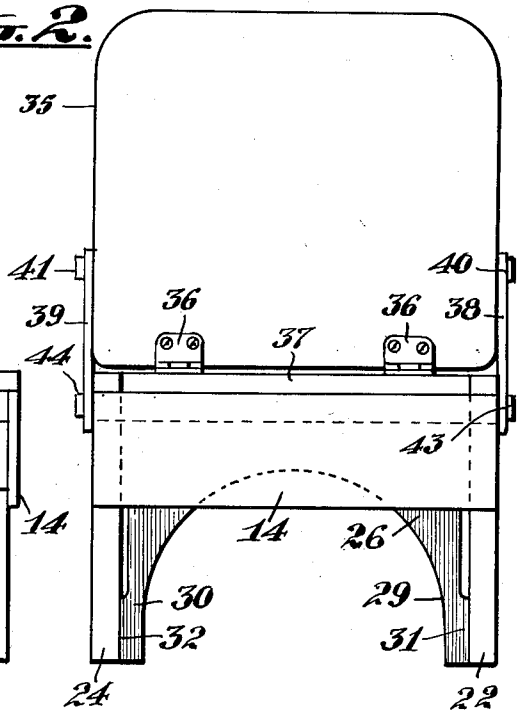


FIG. 3.

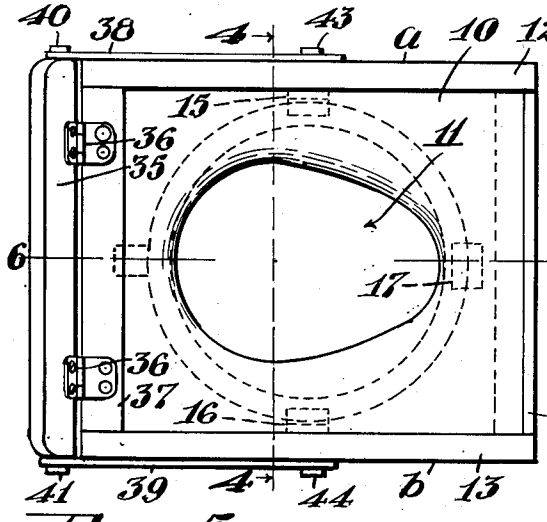


FIG. 4.

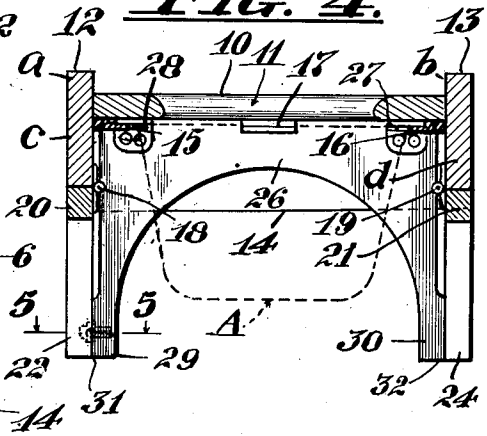
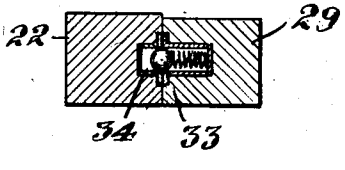


FIG. 5.



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FIG. 6.

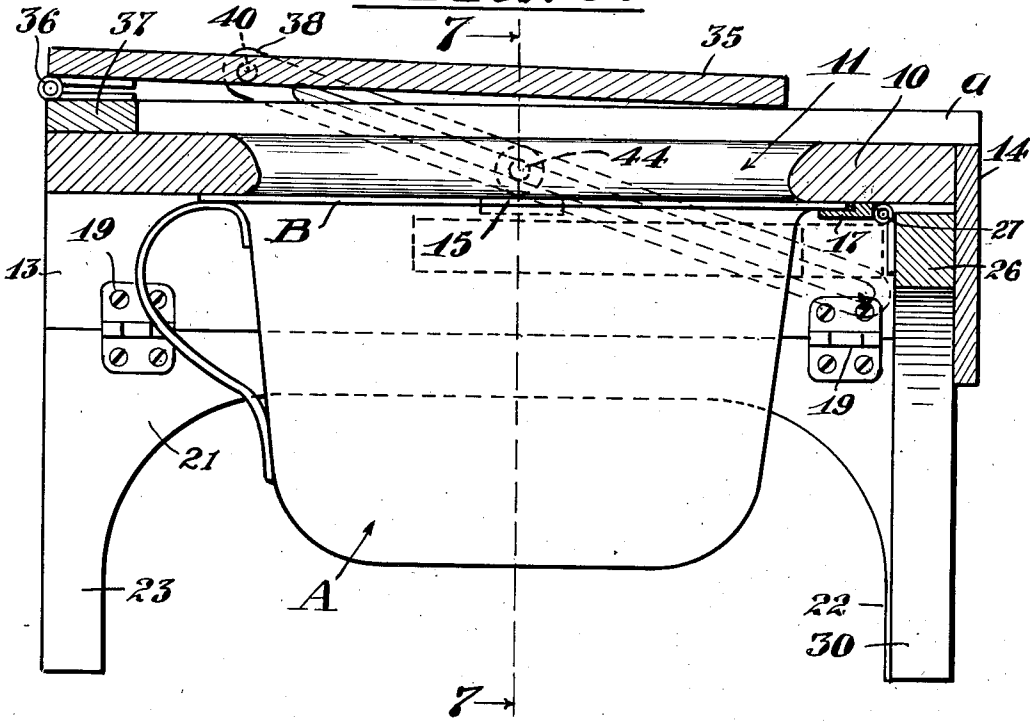
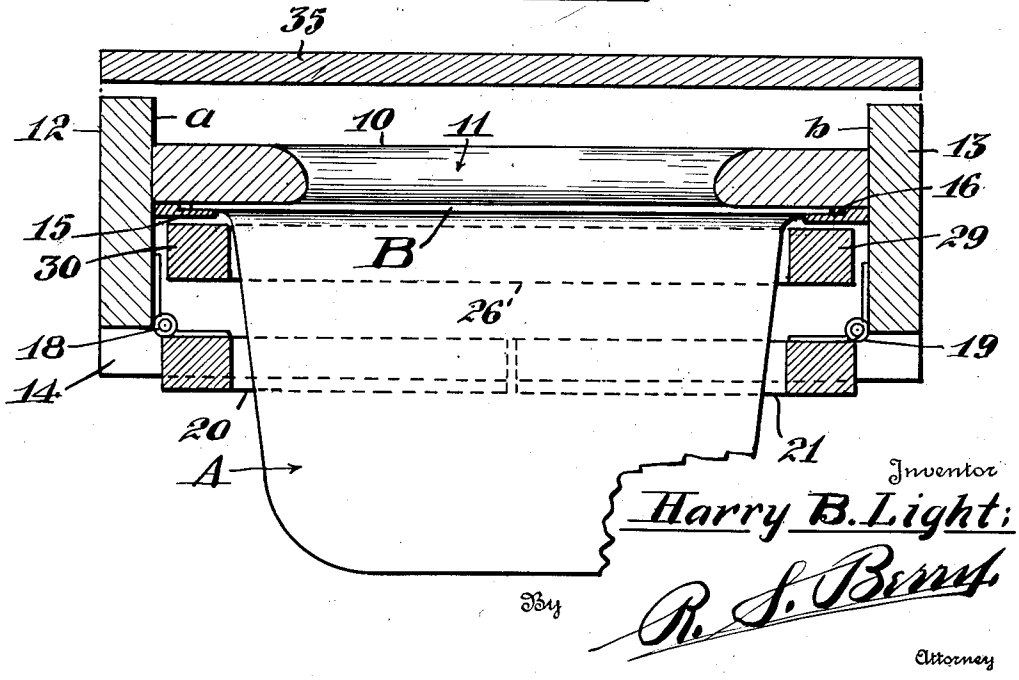


FIG. 7.



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INFANT'S TOILET SEAT

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Application July 19, 1947, Serial No. 762,185

1 Claim. (Cl. 155—31)

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This invention relates to a toilet seat for infant's use and has as its primary object to provide such a seat in the form of a foldable chair which when not in use may be collapsed to form a compact structure which will take up but little space so that it may be readily transported and which when extended will serve as a toilet suitable for use by infants and small children.

Another object is to provide a foldable chair fitted with a toilet seat and adapted to have a conventional child's chamber associated therewith and in which the chamber may be readily attached to and removed from the underside of the seat.

Another object is to provide a chair with foldable legs which when in their extended position will provide a rigid and sturdy support for the chair seat and when in their folded position will serve to confine the chamber attached to the underside of the seat and hold it against displacement.

With the foregoing objects in view together with such other objects and advantages as may subsequently appear, the invention resides in the parts and in the combination, construction and arrangement of parts hereinafter described and claimed, and illustrated by way of example in the accompanying drawing in which:

Fig. 1 is a view of the toilet chair in side elevation;

Fig. 2 is a front elevational view of same;

Fig. 3 is a plan view;

Fig. 4 is a view in cross section taken on the line 4—4 in Fig. 3 as seen in the direction indicated by the arrows;

Fig. 5 is a detail in section taken on the line 5—5 of Fig. 4;

Fig. 6 is an enlarged longitudinal section taken on the line 6—6 of Fig. 3, with the back member shown in its folded position; and

Fig. 7 is a view in cross section taken on the line 7—7 of Fig. 6 showing the chair in its folded position.

Referring to the drawings more specifically 10 indicates the chair seat which is here shown as comprising a rectangular panel formed with a toilet opening 11 so as to constitute a toilet seat. Extending along the side margins of the seat are panels 12 and 13 which project above and below the upper and lower faces of the seat so as to provide upstanding ribs *a* and *b* along the side margins of the seat and to provide parallel walls *c* and *d* projecting downwardly from the underside of the side margins of the seat. A front panel 14 extends downwardly from the forward

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margin of the seat and connects the ends of the side panels 12 and 13.

The space between the panels 12 and 13 at the rear margin of the seat is left open to provide a gap through which a conventional child's chamber A may be slid lengthwise along the underside of the seat in and out of engagement with a pair of opposed tongues 15 and 16 located on the underside of the seat adjacent the sides thereof and with a tongue 17 in the under forward portion of the seat which tongues are adapted to effect engagement with and afford support for a marginal rim B on the chamber A.

Connected to the lower margins of the side panels 12 and 13 by hinges 18 and 19 are inwardly swinging panels 20 and 21 which are cut away intermediate their ends to form front and rear legs 22 and 23 on the panel 21 and front and rear legs 24 and 25 on the panel 20. The panels 20 and 21 when in their extended position project in alignment with the panels 12 and 13 with their hinged edges abutting the lower edges of the latter as shown in Fig. 4. This abutment of the adjacent edges of the panels limits outward swinging movement of the panels 20 and 21 to a position in which the legs thereon will extend perpendicular to the seat.

A panel 26 is mounted on hinges 27 and 28 connected to the underside of the forward edge portion of the seat 10, which panel may be swung outwardly to an extended position perpendicular to the seat where the outer face of the panel 26 will abut the front panel 14, and may be swung inwardly to a folded position underlying the seat 10. The panel 26 is cut away intermediate its ends to form a pair of legs 29 and 30 at its ends which will extend adjacent the front legs 22 and 24 respectively when the legs are in their extended positions. The legs 29 and 30, and also the pairs of legs 22—23 and 24—25 will extend astride the chamber when in their folded position shown in Fig. 7. The outer edge portions of the legs 29 and 30 are formed with laterally protruding portions 31 and 32 which when the panel 26 is in its extended position perpendicular to the seat will abut adjacent inner faces of the front legs 22 and 24 of the panels 20 and 21 and then serve to hold the panels 20 and 21 in their extended positions.

Means are provided for effecting detachable interengagement between the panel 26 and the panels 20 and 21 when in their extended positions which means is here shown as comprising a spring pressed ball detent 33 carried by the leg 29 en-

gageable with a socket 34 on the leg 22 as particularly shown in Fig. 5.

The toilet chair may be equipped with a foldable back, here shown as comprising a panel 35 connected by hinges 36 to the rear upper portion of the seat 10 so that the back 35 may be swung downwardly to overlie the seat or be disposed in an upward and slightly rearwardly inclined position to form the seat back. A fillet 37 may be interposed between the hinges 36 and the seat to elevate the hinges relative to the seat where need be.

As a means for limiting rearward swinging movement of the back 35 links 38 and 39 are pivotably connected at 40 and 41 on the side margins of the back panel 35 which links are formed with longitudinally extended slots 42 which are engaged with headed studs 43 and 44 on the side panels 12 and 13.

In the operation of the invention when it is desired to employ the chair the leg panels are disposed in their extended position as shown in Figs. 1 and 2, the back panel 35 is raised to its extended position, and a chamber A is positioned beneath the seat as indicated in dotted lines in Figs. 1 and 4 and as shown in full lines in Fig. 6 and carried on the tongues 15, 16 and 17.

The chamber may be removed from engagement with the seat by sliding it free of the supporting tongues 15, 16 and 17 and withdrawing it from the rear of the chair for emptying the contents thereof after which it may be replaced.

When it is desired to fold the chair the front panel 26 is folded inwardly to underlie the underside of the seat, after which the side leg panels 20 and 21 are folded inwardly to overlie the front panel as particularly shown in Fig. 7. The leg panels 20 and 21, as well as the panel 26 are retained in their folded condition against falling down by gravity when the seat and panels are disposed horizontally with the panels on the under side of the seat, by frictional resistance of the hinges 18, 19, 27 and 28, on which the leg panels are carried; the hinges being sufficiently tight to prevent free swinging movement of the panels and to resist swinging of the panels from any position in which they are disposed.

The cut away portions of the leg panels are such that when the leg panels are disposed in their folded position they will encompass the chamber as shown in Fig. 7 and thus hold it against rearward movement and in place against the underside of the seat. To complete the folding of the chair the back panel 35 is swung downwardly to overlie the seat as indicated in Figs. 6 and 7. When the chair is thus folded it is rendered quite compact and may be readily encased in a handbag for transportation.

By providing the upstanding ribs *a* and *b* at the side margins of the seat a removable panel (not shown) may be imposed on the seat to close the toilet opening 11; the ribs serving to hold such panel against lateral displacement. The seat may thus be converted into a chair.

While I have shown and described a specific embodiment of my invention I do not limit myself to the exact details of construction set forth, and the invention embraces such changes, modifications and equivalents of the parts and their formation and arrangement as come within the purview of the appended claim.

I claim:

In a folding toilet chair embodying a seat formed with a toilet opening and having opposed parallel side edges, a back edge, a front edge, and an underside, rectangular side panels rigidly affixed to the side edges of said seat, said panels having lower edges spaced equidistant downwardly from the underside of the seat, a moveable side panel hinged to the lower edge of each of said side panels, a moveable front panel hinged to the front edges of said seat, said panels being positionable to extend perpendicular relative to said seat with the panel on the front edge of the seat extending between said side panels, said front panel having end edges arranged to abut the inner faces of the moveable side panels when the moveable panels are disposed perpendicular to said seat, said moveable panels being also positionable to underlie said seat with the front panel interposed between the seat and the underlying moveable side panels, and legs on the ends of each of said moveable panels; a pair of parallel opposed tongues on the underside of said seat along the side edges thereof and having ends opening toward the rear edge of the seat for slidably receiving and supporting the marginal rim of a chamber in detachable connection therewith, the underside of said seat at the back edge thereof being unobstructed to permit sliding of the rim of a chamber in and out of engagement with said tongues, the pair of legs on each of said panels being spaced apart and arranged to extend astride a chamber supported by said tongues opposite the seat opening when the moveable panels are in their folded position underlying said seat, and the pairs of legs on said moveable side panels when in their folded position holding a chamber on said tongues against sliding and removal therefrom.

HARRY B. LIGHT.

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