Sept. 23, 1952 R. J. PETERS 2,611,363

SAFETY BODY SUPPORTING DEVICE

Filed Sept. 26, 1950 2 SHEETS—SHEET 1

FIG. 1.

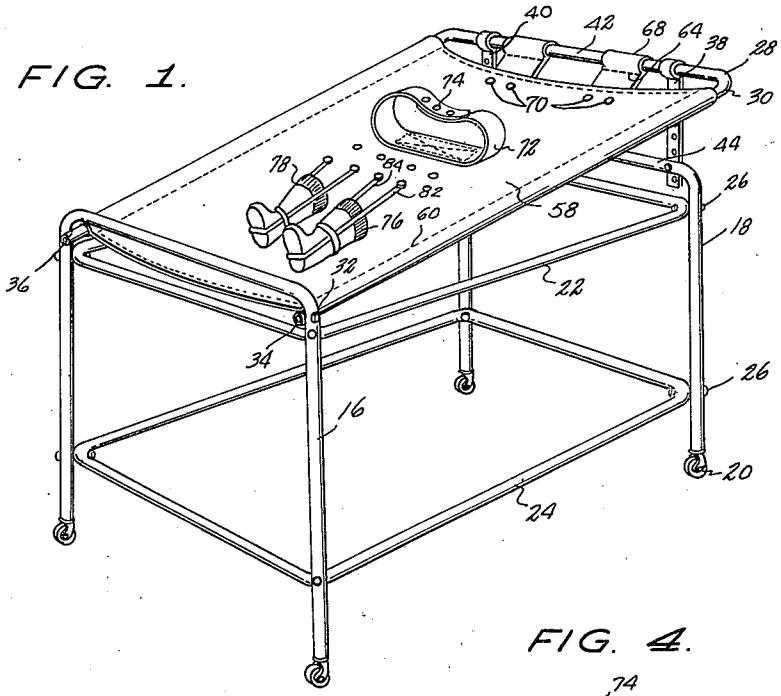


FIG. 4.

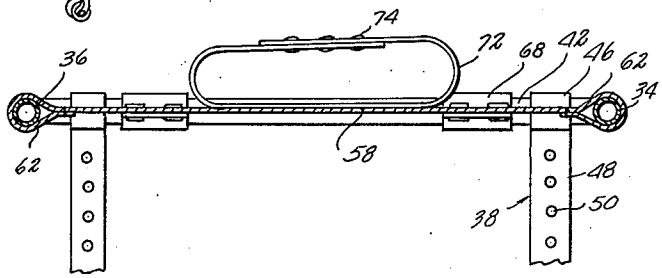


FIG. 5.

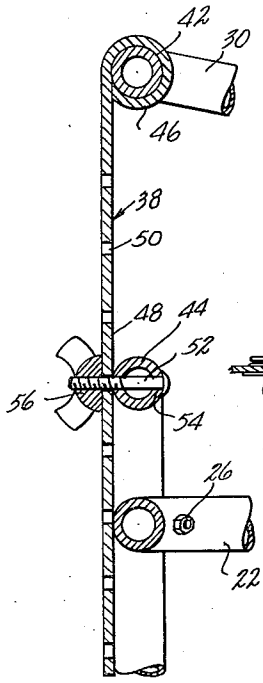
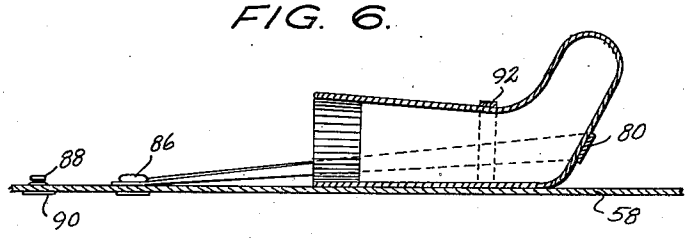


FIG. 6.



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SAFETY BODY SUPPORTING DEVICE

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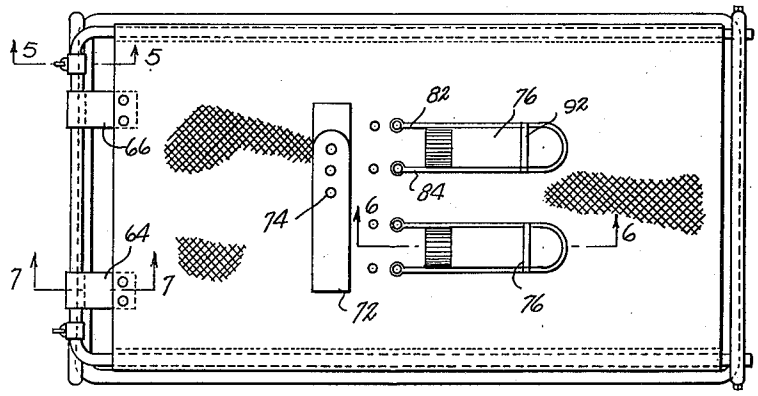
FIG. 2.



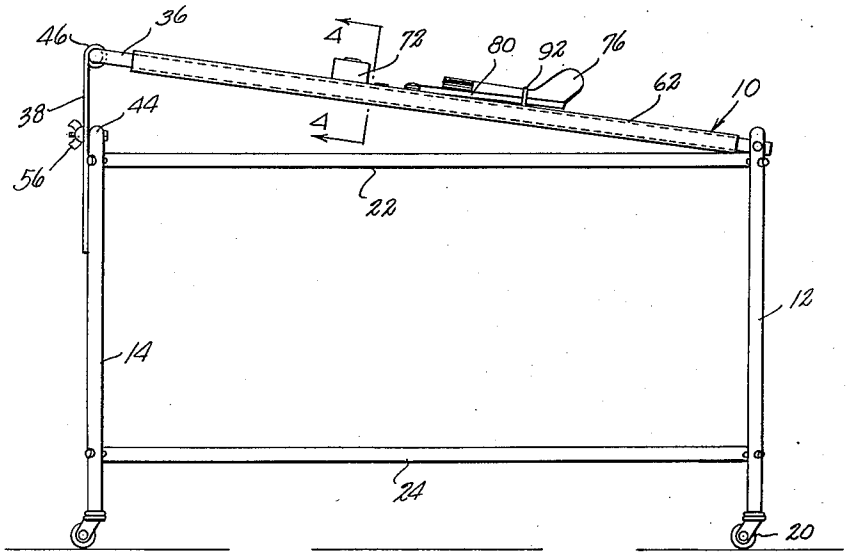
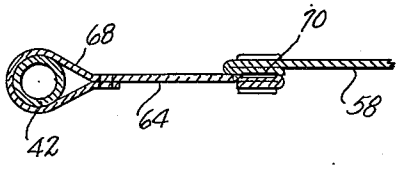


FIG. 3.

FIG. 7.



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SAFETY BODY SUPPORTING DEVICE

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5 Claims. (Cl. 128—134)

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This invention relates to improvements in body supporting devices, which are provided with restraining means to prevent rolling and turning movements of the body and more particularly to improvements in safety holders for infants.

The primary object of this invention is to provide an infant supporting member, which is mounted on head and foot supports and which is provided with means for comfortably engaging the body of an infant to prevent rolling and crawling movements of the infant.

Another object of this invention is to comfortably support an infant in a manner to obviate rolling and creeping movements of the infant, without impeding the muscular exercise of the infant and without preventing bathing and dressing of the infant.

Another object of this invention is to provide a comfortable body supporting member, which is mounted on mobile head and foot supports and which has one end thereof vertically adjustable for positioning the support in a plane inclined to the horizontal.

In the accompanying drawings:

Figure 1 is a view in perspective of the baby holder or restraining bed, constructed in accordance with the principles of this invention;

Figure 2 is a top plan view thereof;

Figure 3 is a side elevational view thereof;

Figure 4 is a transverse sectional view taken on line 4—4 of Figure 3;

Figure 5 is an enlarged detail sectional view taken on line 5—5 of Figure 2;

Figure 6 is a fragmentary longitudinal vertical sectional view taken on line 6—6 of Figure 2, and

Figure 7 is a detailed sectional view taken on line 7—7 of Figure 2.

Referring now particularly to the drawings, the body supporting and restraining means 10 includes a vertical foot support 12 and a head support 14, the supports being formed from U-shaped tubular members 16 and 18 on the free terminals of the legs of which casters 20 are mounted, thereby lending mobility to the head and foot supports.

Rectangular bracing frames 22 and 24 are connected at their corners to the legs of the head and foot supports by fasteners 26, the brace frames rigidifying the supports and sustaining the supports in fixed longitudinal relationship. The brace frames are vertically spaced, with the frame 24 being located adjacent to the bottom of the supports and the brace frame 22 being disposed adjacent to the upper ends of the supports.

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A bed section 28 is mounted on the head and foot supports and includes a U-shaped tubular member 30, which is pivotally affixed to the upper end of the foot support 16 by means of pivot elements 32, which are transversely disposed through the upper ends of the legs of the foot support and engage the free ends of the legs 34 and 36 of the tubular member.

A pair of straps 38 and 40 support the bight portion 42 of the tubular member in adjustable positions on the bight portion 44 of the head support. The straps include bearing ends 46 which are circumposed on the bight portion 42 of the tubular member and elongated portions 48, which are formed with spaced apertures 50 for the reception of bolts 52, which are disposed through transverse openings 54 in the bight portion 44 of the head support and fastened by wing nuts 56.

In this manner, the tubular member or frame is vertically adjustable about the horizontal pivots 32 and positionable in planes inclined to the horizontal.

A flexible body supporting member 58 is suspended between the legs 34 and 36 of the tubular frame, the opposing longitudinal marginal edges of the supporting member 58 being extended around the legs and stitched to the supporting member by an in and out stitch 60. Thus, sleeves 62 are defined and receive the legs of the tubular frame to suspend the supporting member between the legs of the frame.

Flexible suspension straps 64 and 66 are provided and are formed with sleeve ends 68 disposed on the bight portion 42 of the tubular frame, the opposing ends of the straps being releasably affixed by snap fastening means 70 to the underside of the top edge of the supporting member 58.

A waist encircling restraining belt or strap 72 is stitched transversely on the supporting member 58 and the opposing ends thereof are provided with cooperative snap fastening means 74.

Boots 76 and 78 are disposed longitudinally on the supporting member below the belt or strap 72 and are releasably and adjustably affixed to the supporting member. To effect the attachment of the boots to the supporting member, straps 80 are provided, the straps having their intermediate portions arranged transversely of and extending around the foot portions of the boots and having their end portions extending longitudinally of each side of the leg portions of the boots, the opposing ends 82 and 84 of the straps projecting beyond the open ends of the boots and being provided with sockets 86, en-

gageable on the heads 88, the sockets and heads forming cooperative snap fastening means. For adjusting the position of the boots relative to the belt, one set of heads is formed transversely on the supporting member toward the bottom end of the supporting member and another set 90 is formed adjacent to the belt.

Elastic bands 92 are concentrically stitched on the leg portions of the boots and encompass the straps to attach the straps to the boots in the position and manner illustrated.

In use, the infant is placed on the supporting member 58 and the ends of the belt 72 are fastened together around the waist of the infant, with the feet and legs of the infant being disposed within the boots 76 and 78. Thus, the major portions of the body of the infant are exposed for bathing or dressing and, the arms and legs of the infant are not restrained, so that muscular activity can be indulged in.

The frame may be tilted to a position in a plane inclined to the horizontal, for bathing the infant, so as to direct the water downwardly off the bottom edge of the supporting member, where a suitable receptacle may be provided. Or, the frame may be raised, for feeding purposes or the like, at which times, it is desirable to have the infant supported in an inclined position.

The body supporting member 58, which is formed of canvas or ducking is removable for laundering by releasing the snap fasteners 70 and the pivots 32, the member being sleeved off the legs of the frame 30.

Obviously, by making the supporting member and the attendant frames on a larger scale, the device may be used as a hospital bed or operating table.

Having thus described this invention, what is claimed is:

1. A bed comprising a pair of vertical U-shaped members forming head and foot supports, brace frames connecting the legs, a U-shaped bar pivoted at the free terminals of its legs to the foot supports, apertured straps depending from the bight portion of the bar, fasteners selectively engaged in the apertures for attaching the straps to the head support, a flexible body supporting member attached at its opposing longitudinal marginal edges to the legs of the bar and disposed transversely therebetween, means attaching said member to the bight portion of the bar, a waist encircling adjustable strap fixed transversely on the member, boots disposed longitudinally on the member, and means formed on the member and on the boots for attaching said boots to the member, said last means including straps having their intermediate portions extending around the foot portions of the boots and having their ends extending beyond the leg portions of the boots, and snap fasteners formed on the ends of the straps and on the member.

2. A bed comprising a pair of vertical U-shaped members forming head and foot supports, brace frames connecting the legs, a U-shaped bar pivoted at the free terminals of its legs to the foot supports, apertured straps depending from the bight portion of the bar, fasteners selectively engaged in the apertures for attaching the straps to the head support, a flexible body supporting member attached at its opposing longitudinal marginal edges to the legs of the bar and disposed transversely therebetween, means attaching said member to the bight portion of the bar, a waist

encircling adjustable strap fixed transversely on the member, boots disposed longitudinally on the member, and means formed on the member and on the boots for attaching said boots to the member, said last means including straps having their intermediate portions extending around the foot portions of the boots and having their ends extending beyond the leg portions of the boots, snap fasteners formed on the ends of the straps and on the member, and elastic bands encircling the leg portions of the boots and encompassing the straps for retaining the straps on the boots.

3. In a leg restraint means the combination, with a body supporting member, of a pair of boots supported upon said member longitudinally thereof and shaped to enclose the feet and part of the legs of a person supported on said member, and means on the member and on the boots for attaching said boots to the member, said means including straps having their intermediate portions extending around the foot portions of the boots and having their ends extending beyond the leg portions of the boots, and cooperating, separable fastener elements on the ends of the straps and on said member.

4. In a leg restraint means the combination, with a body supporting member, of a pair of boots supported upon said member longitudinally thereof and shaped to enclose the feet and part of the legs of a person supported on said member, and means on the member and on the boots for attaching said boots to the member, said means including straps having their intermediate portions extending around the foot portions of the boots and having their ends extending beyond the leg portions of the boots, cooperating, separable fastener elements on the ends of the straps and on said member, and elastic bands encircling the leg portions of the boots and encompassing the straps for retaining the straps on the boots.

5. In a leg restraint means the combination, with a body supporting member, of a pair of boots supported upon said member longitudinally thereof and shaped to enclose the feet and part of the legs of a person supported on said member, and means on the member and on the boots for attaching said boots to the member, said means including straps having their intermediate portions arranged transversely of the foot portions of the boots and extending therearound, said straps having their end portions extending longitudinally of the leg portions of the boots along opposite sides thereof and projecting beyond said leg portions of the boots, cooperating separable fastener elements on the ends of the straps and on said member, and elastic bands encircling the leg portions of the boots and encompassing the straps for retaining the straps on the boots.

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