

Sept. 2, 1958

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2,849,731

TOY BED

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2 Sheets-Sheet 1

Fig. 1

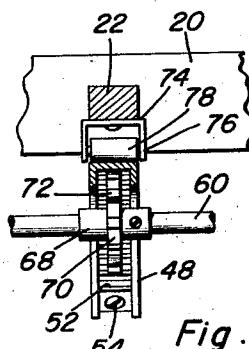
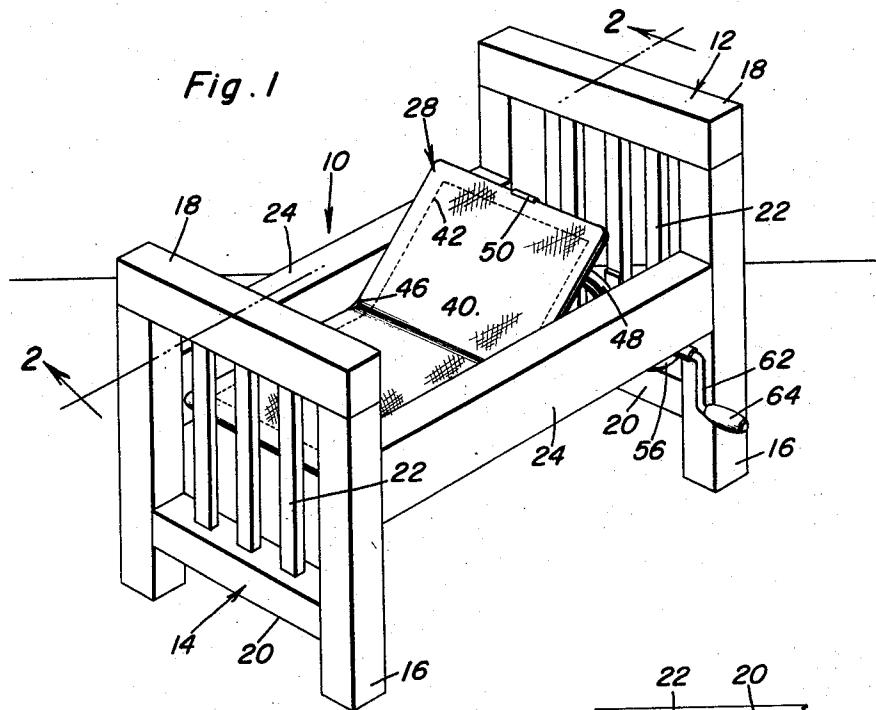


Fig. 4

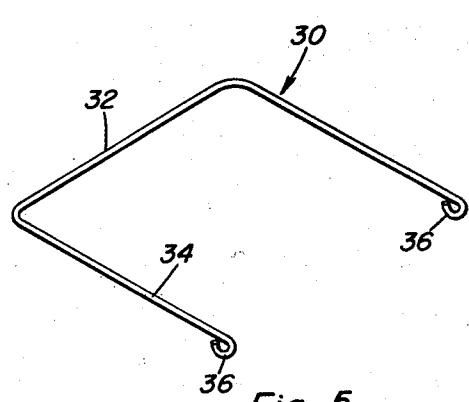


Fig. 5

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Fig. 2

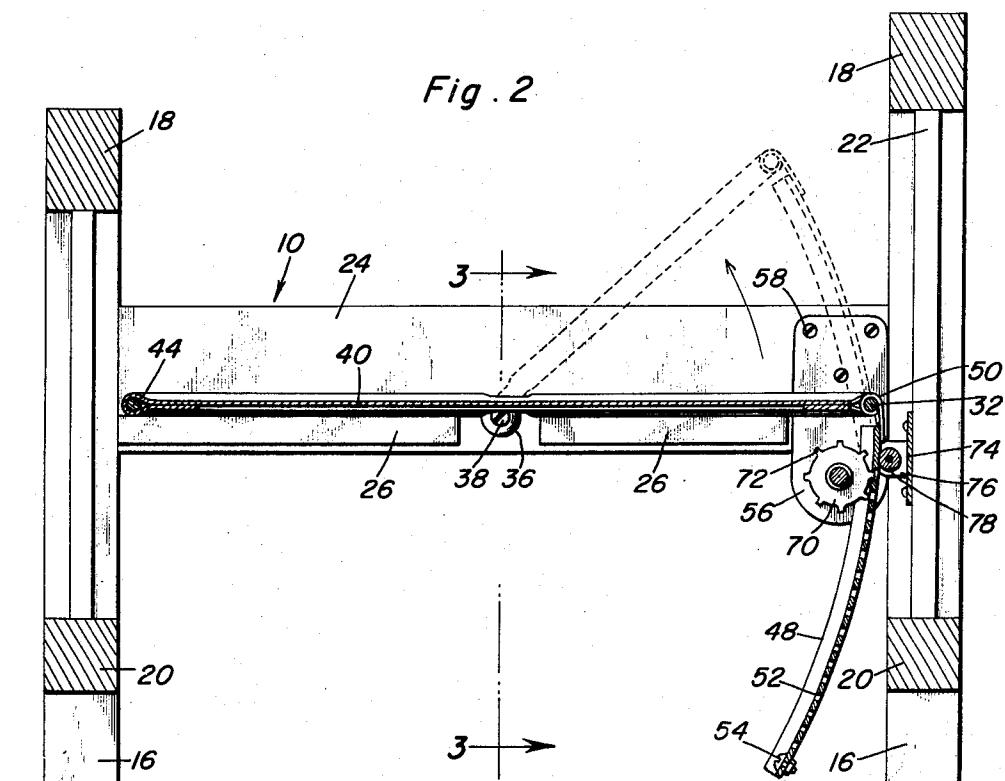
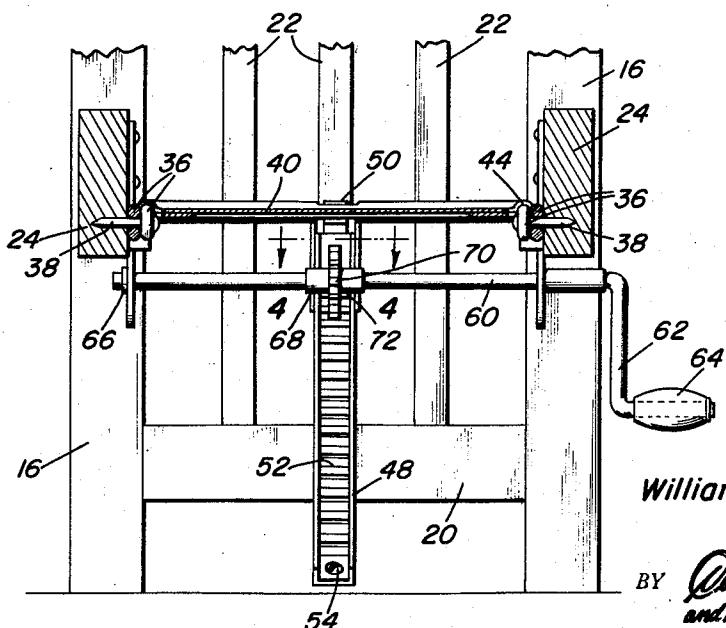


Fig. 3



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1 Claim. (Cl. 5—74)

This invention generally relates to a toy bed and more specifically provides a toy bed which resembles a hospital bed in that it has a portion of the mattress supporting element pivotally attached to the bed frame for swinging movement in a vertical plane whereby a portion of the mattress may be tilted.

An object of the present invention is to provide a toy bed having the usual head board, footboard, side rails and mattress supporting element wherein the mattress supporting element is constructed of a pair of U-shaped frames with the legs of one of the U-shaped frames being pivotally attached to the side rails together with means for raising and lowering the bight portion of the pivotally attached U-shaped frame member thereby raising and lowering one end of the mattress supporting frame.

Another important object of the present invention is to provide a mattress supporting frame having a portion thereof swingable in a vertical plane together with hand operated crank means for raising and lowering the portion of the frame.

Other objects of the present invention will reside in its simplicity of construction, ease of operation, adaptation for its particular purposes and its relatively inexpensive manufacturing cost.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view of the toy bed of the present invention;

Figure 2 is a longitudinal, vertical sectional view taken substantially upon the plane passing along section line 2—2 of Figure 1 illustrating the details of construction of the toy bed;

Figure 3 is a transverse, vertical sectional view taken substantially upon a plane passing along section line 3—3 of Figure 2 illustrating further structural details of the toy bed;

Figure 4 is an enlarged detailed sectional view taken substantially upon a plane passing along section line 4—4 of Figure 3 illustrating further structural details of the raising and lowering mechanism; and

Figure 5 is a perspective view illustrating the U-shaped pivotal frame member from which the mattress supporting frame is constructed.

Referring now specifically to the drawings, the numeral 10 generally designates the toy bed of the present invention which includes a headboard generally designated by the numeral 12 and a footboard generally designated by the numeral 14, each of which includes vertical corner posts 16 interconnected by a top rail 18 and a bottom rail 20 with the bottom rail 20 being spaced from the bottom end of the corner rails 16. Disposed between the rails 18 and 20 is a plurality of vertical slats 22 for completing the headboard and footboard construction. Inter-

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connecting the headboard and footboard 12 and 14 is a pair of longitudinal side rails 24 of generally rectangular construction thereby forming a complete bedstead. It will be understood that other types of headboards and footboards may be constructed and provided which may be constructed of any suitable material lending itself to relatively inexpensive manufacturing cost.

Each of the side rails 24 is provided with a supporting ledge member 26 with the ledge members 26 being spaced from each other at the center thereof. Supported between the side rails 24 is a mattress supporting member generally designated by the numeral 28 which includes a pair of U-shaped frame elements 30 each of which includes a bight portion 32 and a pair of parallel legs 34 terminating in loops or eyes 36 wherein the loops or eyes 36 are disposed in registry with each other and in encircling relation to a fastener element 38 which extends through the aligned eyes 36 into the respective side rails 24 thereby securing the frame elements 30 to the side rails 24. When the frame elements 30 are in assembled relation, the generally rectangular frame is provided and the frame is used to support a flexible canvas member 40 having a peripheral line of stitching 42 forming a peripheral hem or loop 44 for receiving the bight portion 32 and legs 34 of the frame elements 30. The canvas member 40 is provided with a crank arm 46 at each side thereof for permitting pivotal movement of one of the frames 30 in relation to the other for permitting one-half of the canvas member to be moved to an upwardly inclined position substantially as illustrated in dotted lines in Figure 2.

For raising and lowering one of the frame members 30, an elongated arcuate member 48 is provided at its upper end with a loop-shaped attaching member 50 pivotally encircling the bight portion 32 of the frame 30 for pivotally attaching the arcuate member 48 to the frame member 30. The elongated arcuate member 48 is provided with a plurality of transversely disposed slots or apertures 52 which are equally spaced from each other. Also, it is pointed out that the arcuate member 48 is channel-shaped with the slots 52 being disposed in the web of the channel and at the lower end thereof, the fastening bolt 54 is provided which forms a stop member for the lower end of the arcuate member 48 in a manner described hereinafter.

For moving the arcuate member longitudinally, a pair of depending brackets 56 are provided with one of the brackets 56 being disposed on the inner surface of each of the side rails 24 and secured thereto by suitable fasteners 58. An elongated transverse shaft 60 is journaled in the lower end of the brackets 56 which depend below the side rails 24. At one end of the shaft 60 is provided an offset crank handle 62 having a rotatable hand-grip 64 thereon whereby rotation of the handle 62 will cause rotation of the shaft 60. Suitable sleeve means 66 may be provided for retaining the shaft 60 from longitudinal movement thereby retaining the shaft 60 in proper transverse position.

Disposed centrally on the shaft 60 in a gear hub 68 having a circular plate 70 formed integral therewith and the plate 70 is provided with a plurality of circumferentially spaced projecting lugs or ears 72 generally simulating gear teeth wherein the teeth 72 are circumferentially spaced a distance equal to the spacing between the slots 52 in the arcuate member 48 for meshing engagement therewith. Inasmuch as the teeth 72 on the plate 70 are in meshing engagement with the slots 52, rotation of the shaft 60 by the handle 62 will cause rotation of the circular plate 70 with the gear teeth 72 thereon thereby raising and lowering the arcuate member 48 and raising and

lowering the frame element 30 to which the arcuate member 48 is attached.

A U-shaped bracket 74 is provided on a central slat 22 in facing relation to the arcuate member 48. The U-shaped bracket 74 is provided with a pair of spaced legs 76 having a roller 78 journaled therebetween wherein the roller 78 rollingly engages the convex surface of the arcuate member 48 substantially in direct opposition to the gear teeth 70 thereby assuring that the gear teeth 72 will be meshed with the slots 52 in the arcuate member 48 at all times thereby assuring proper operation of the device.

In operation, one of the frame elements 30 together with its associated mattress supporting canvas member 40 may be raised to an upwardly inclined position as illustrated in Figure 1 by proper rotation of the handle 62. The ledge supports 26 normally effect support of the mattress supporting member 28 and by properly positioning a mattress on the mattress supporting member 28 and any other usual bed-clothes, it will be seen that the device will closely simulate a hospital bed thereby providing a toy bed which is novel in construction and desirable from the standpoint that it actually simulates the movement and actions of a hospital bed.

the movement and actions of a hospital bed.

From the foregoing, the construction and operation of the device will be readily understood and further explanation is believed to be unnecessary. However, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

A toy bed comprising a headboard, a footboard, and interconnecting vertically elongate side rails, a mattress-simulating frame, a pair of ledge members fixed along the lower inner side edge of each side rail leaving a substantial portion of each side rail extending thereabove, each pair of ledge members being spaced apart at the center of the

associated side rail to leave a free and unobstructed portion thereat, said frame comprising a pair of U-shaped members, each including a pair of parallel legs connected at one end by a bight portion and having their opposite ends terminating in enlarged loops, said U-shaped members being disposed such that their open ends are adjacent and with the lower loops of corresponding legs overlapping and positioned within the spaces provided between said pairs of ledge members with the remainder of said legs normally resting upon said ledges in nested position between said side rails at a substantial distance below the upper edges thereof defining a substantially confined, bedding and toy-receiving area above said frame and between the side rails, fasteners affixed to said side rails within said spaces between the ledge members and passing through the overlapping loops of said U-shaped member, flexible cloth-like material stretched across and secured to said U-shaped members to simulate a mattress, a loop-shaped attaching member pivotally encircling the bight portion of one of said U-shaped members and depending therefrom, an arcuate rack member fixed to said attaching member, said arcuate rack member being provided with a plurality of transversely disposed slots equally spaced from each other, a transverse shaft journaled between said side rails, a gear on said shaft for rotating said gear to raise and lower said one U-shaped member, a roller engaging said rack opposite said gear for retaining the arcuate member in mesh with said gear.

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