

July 10, 1962

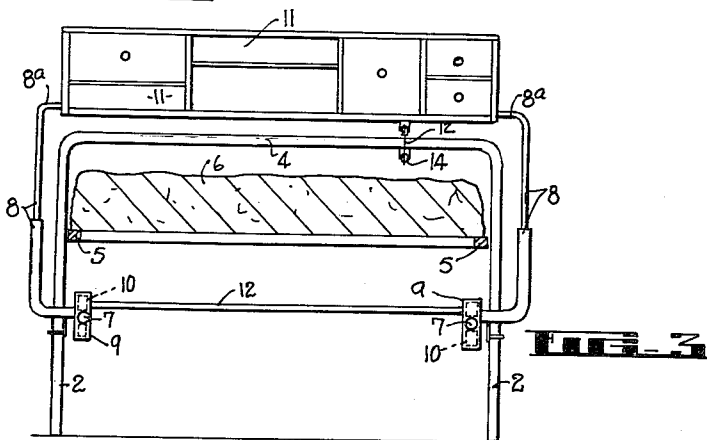
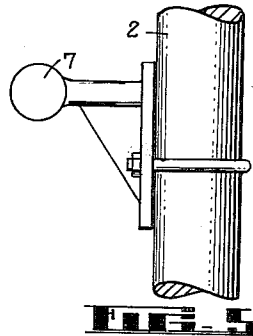
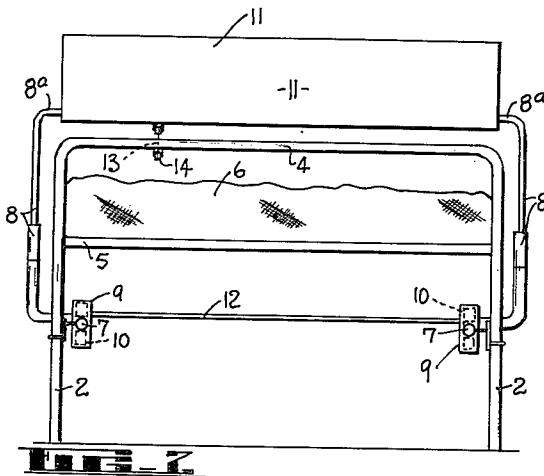
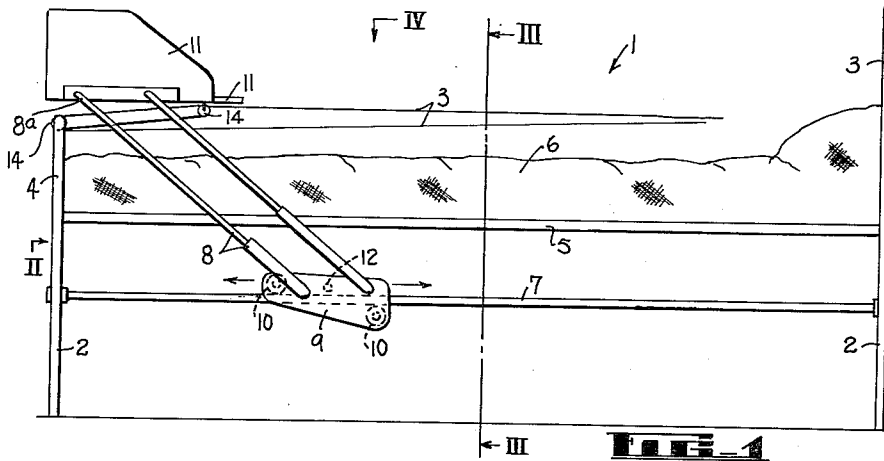
T. N. YOUNG

3,042,937

ATTACHMENTS FOR BEDS

Filed Feb. 15, 1961

2 Sheets-Sheet 1



July 10, 1962

T. N. YOUNG

3,042,937

ATTACHMENTS FOR BEDS

Filed Feb. 15, 1961

2 Sheets-Sheet 2

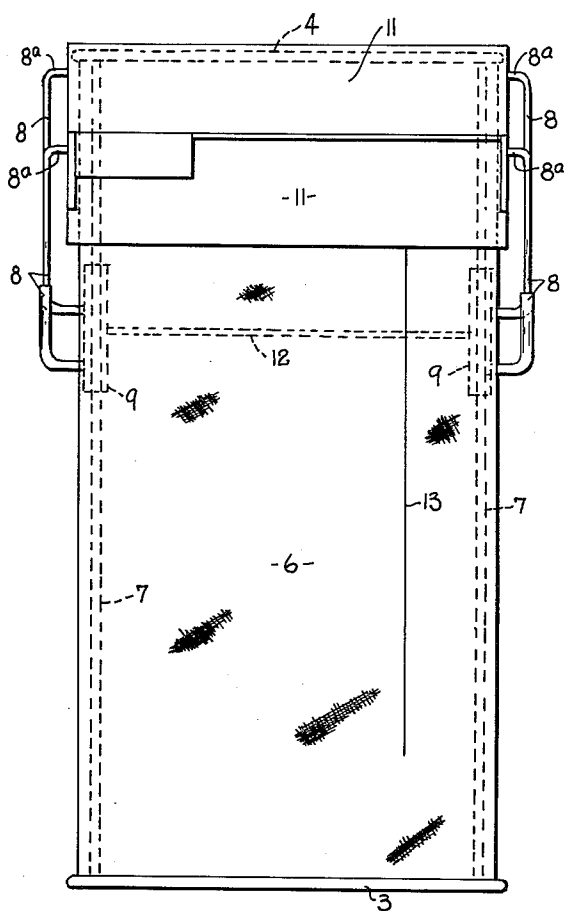


FIG. 4

1

2

3,042,937
ATTACHMENTS FOR BEDS
Terence Nathan Young, Cronadun, West Coast,
New Zealand
Filed Feb. 15, 1961, Ser. No. 89,552
5 Claims. (Cl. 5-332)

This invention relates to the construction of or attachments for beds and similar furniture, and also relates to the addition of further components to existing beds.

An object of the invention is to provide an improved construction of, or attachments for, a bed and the like in which there is a tray, bookshelf, and/or container arrangement which is slidably mounted on and over the bed, such slidable tray or container being movable by an occupant of the bed whereby the tray or container can be moved to a position where it is usable by the occupant of the bed or whereby the tray or container can be moved to the end of the bed out of the way of the patient or occupant of the bed.

According to this invention the improved construction of, or attachment for a bed and the like comprises a side rail on each side of the bed joining the respective legs of the bed, frame members having secured thereto a tray or compartment member, the frame members being slidably mounted on the side rails so that the tray member or compartment member can be positioned for use by an occupant or slid to the end of the bed out of the way of the occupant thereof.

This invention will be exemplified in relation to a bed which has the usual legs, head and end pieces supported by horizontal side members, and as more particularly shown in the accompanying drawings, in which:

FIGURE 1 is a side elevation of a bed fitted with this invention,

FIGURE 2 is a rear elevation in the direction of arrow II of FIGURE 1 showing the rear end of the tray and/or container member,

FIGURE 3 is an elevation in line III-III of FIGURE 1,

FIGURE 4 is a plan view on lines IV-IV of FIGURE 1, and

FIGURE 5 is a detailed view showing a form of connection of the additional side rail to a leg of the bed.

In this invention the improved bed, as shown in FIGURES 1, 2, 3 and 4 of the accompanying drawings, is indicated by the arrow 1 and has the usual legs 2, head piece 3, end piece 4, supported by horizontal side members 5 on which a mattress and bed clothing 6 is normally placed.

As shown in FIGURE 1 of the accompanying drawings the bed 1 has side rails 7 situated lengthwise of the bed 1 and on either side of the bed 1, and such rails 7 act as or form runways or guides for supporting frame members 8 which are movable in relation to the bed 1 by sliding or running along the side rails 7. The frame members 8, of which there is one or one set on each side of the bed 1, are secured at their lower ends to a casing 9, such casing 9 having therein rollers or wheels 10 which engage their respective side rails 7 so that the frame members 8 can be slid or moved along the side rails 7. In a shown arrangement of the casings 9 and the rollers or wheels 10 therein, the rollers or wheels 10 are arranged with one roller or wheel 10 above the side rail 7 and one below the side rail 7.

Thus the frame members 8 are in the form of supporting arms on each side of the bed 1 and the frame members 8 rise upwardly from the rails 7, and the upper ends 8a of the frame members are conjoined by a support, a tray, or compartment member 11 and the like over the bed 1.

During the slidable movement of the frame members 8 on the wheels or rollers 10 along the side rails 7, it is desirable to prevent rocking or sideways movement of the frame members 8 and the tray or compartment member 11, and to prevent such rocking a strengthening member 12 is provided between the casing 9 on each side rail 7 (see FIGURES 2, 3, and 4).

The tray or compartment member 11 may be of any shape, size and arrangement as desired and may incorporate shelves, small cupboards and the like (not shown) according to the requirements of a particular occupant in a particular bed fitted with this invention.

The tray or compartment member 11 is arranged to be placed in a desired relationship to an occupant of the bed 1 according to the wishes of the occupant of the bed 1 and such relationship of the member 11 can be altered by the occupant of the bed 1 pulling on a cord 13 which is attached to pulleys 14 on the member 11 and end piece 4 of the bed 1 so that by pulling on the cord 13 the member 11 can be slid on its frame members 8 along the rails 7 and the member 11 can be placed near an occupant or further away from an occupant as may be required. Thus if an occupant of a bed 1 desires to read, write or to have a meal, the member 11 can be slid, by means of pulling the cord 13, to a position near the occupant of the bed 1 towards the head piece 3 of the bed 1, and when the occupant of the bed 1 is no longer using the member 11 it can be moved to the end of the bed 1 above the end piece 4 as shown in FIGURE 1 by again pulling on the cord 13.

In a modified form of the invention (not shown in drawings) the means for moving the frame members 8 and the member 11 along the side rails 7 can be varied by substituting a motorised mechanism in place of the cord and pulley arrangement whereby the member 11 can be moved with its frame members 8 along the side rails 7.

The member 11 can be slid on its frame members 8 on the side rails 7 by an occupant even while the occupant of the bed 1 is in a reclining position in the bed 1.

What I do claim and desire to obtain by Letters Patent of the United States of America:

1. An attachment for a bed having a head piece, an end piece, and a pair of spaced horizontally disposed parallel side rails each connected at its ends to the head and end pieces, a casing slidably mounted on each of the side rails, a strengthening member extending at right angles to the side rails and secured at its ends to said casings, frame members secured at one end to each of said casings and extending upwardly therefrom in angular relation thereto in a direction toward the end piece of the bed, a compartment member secured to the free ends of said frame members, and means connected to said compartment member and the end piece of the bed operable to cause movement of said attachment longitudinally of the bed.

2. An attachment as defined in claim 1, wherein said casings include rollers mounted therein in diagonally opposed relation, and said rollers adapted to engage opposite sides of the side rails.

3. An attachment as defined in claim 1, wherein said frame members are substantially U-shaped in configuration including inturned upper end portions, and said compartment member being secured between said inturned upper end portions of said frame members.

4. An attachment as defined in claim 1, wherein said means connected to said compartment member and the end piece of the bed to cause movement of said attachment comprises a pulley secured to said compartment member, a cord connected to and extending around said pulley, and the end piece of the bed intermediate its ends, said at-

tachment reciprocally movable by the application of tension selectively to the ends of said cord.

5. An attachment for a bed having a head piece, an end piece, and a pair of spaced horizontally disposed parallel side rails each connected at its ends to the head and end pieces, a casing slidably mounted on each of the side rails, rollers mounted interiorly of said casings in diagonally opposed relation and adapted to engage opposite sides of the rail, a strengthening member extending between said casings and secured to each of the same, a pair of generally U-shaped frame members secured to each of said casings and extending angularly upwardly therefrom in a direction toward the end piece of the bed, each of said pair of frame members having inturned end portions, a compartment member secured to and extending between the inturned end portions of said pairs of frame members in overlying transverse relation to the bed, a pulley se-

cured to the underside of said compartment member, a cord connected to and extending around said pulley and the end piece of the bed intermediate its end, and said attachment longitudinally movable, reciprocally, upon the application of tension selectively to the ends of said cord.

References Cited in the file of this patent

UNITED STATES PATENTS

116,516	Webb	June 27, 1871
2,535,112	Woody	Dec. 26, 1950
2,709,818	Freese	June 7, 1955

FOREIGN PATENTS

484,472	Italy	Sept. 10, 1953
1,007,580	France	Feb. 6, 1952
1,131,025	France	Oct. 3, 1956