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N. SINCLAIR

1,945,826

RECESS TYPE WALL BED

Filed July 1, 1931

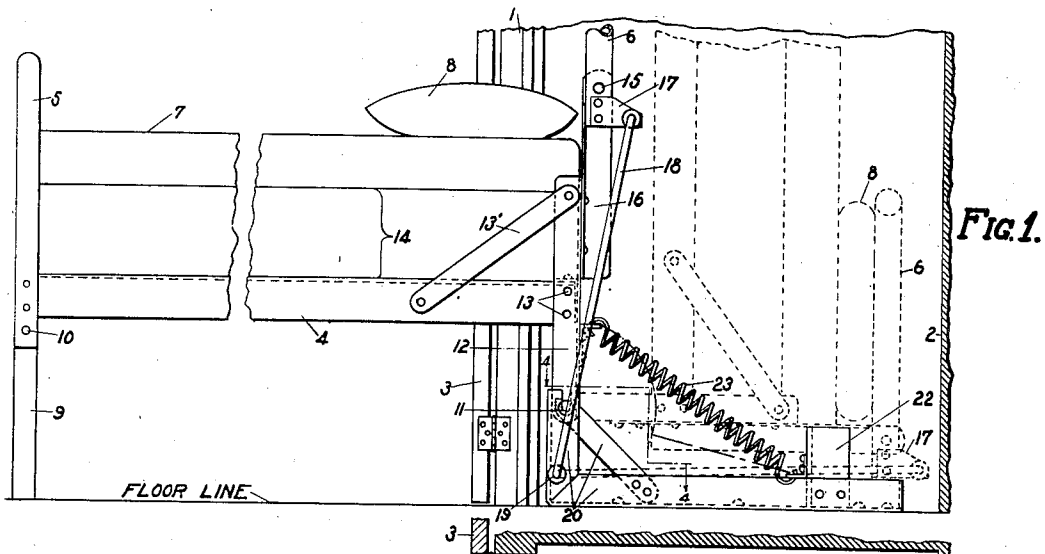


Fig. 1.

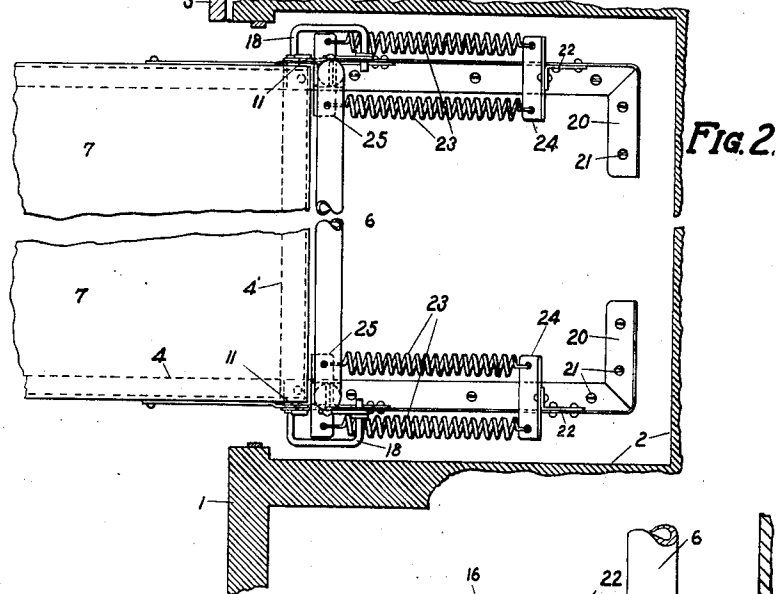


Fig. 2.

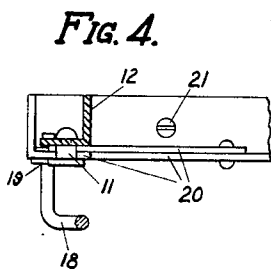


Fig. 4.

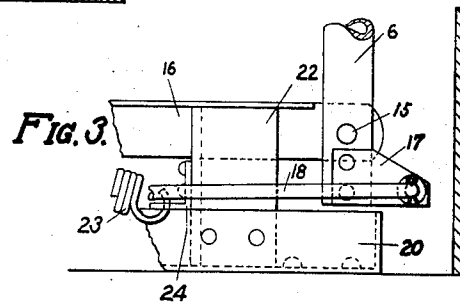


Fig. 3.

INVENTOR.
NEIL SINCLAIR
BY *Miller Boyken & Bried*
ATTORNEYS.

UNITED STATES PATENT OFFICE

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RECESS TYPE WALL BED

Neil Sinclair, Oakland, Calif., assignor to Rip
Van Winkle Wall Bed Company, Inc., Oakland,
Calif., a corporation of California

Application July 1, 1931. Serial No. 548,156

2 Claims. (Cl. 5—136)

This invention relates to wall beds and has for its object an improvement in the mounting of what are known as recess type of wall beds whereby when the bed is lowered out of the recess the pivoted or head end of the bed will be out of the recess or substantially so.

This improvement brings the head of a sleeper out of the wall recess and overcomes the objection of many persons to having their heads projecting into the closet where the circulation of air is impeded. Other objects of the invention are simplified and more efficient constructional features as will appear from the following description and accompanying drawing.

In the drawing Fig. 1 is a side elevation of the lowered bed projecting horizontally from the wall recess or closet, the latter being shown with its near wall removed so as to show the arrangement of parts within the recess and also in dotted position the position of the bed when folded.

Fig. 2 is a plan view of the right-hand portion of Fig. 1.

Fig. 3 is an enlarged detail of a portion of Fig. 1 shown dotted in said figure.

Fig. 4 is an enlarged detail of a portion of Fig. 1 as seen from the line 4—4 thereof.

In further detail the drawing shows at 1 the wall of a room, 2 a recess or shallow closet therein, which may be closed by a door 3, while projecting horizontally from the recess is a folding bed comprising a main frame 4, 4' provided with a foot rail 5 and a pivoted head rail 6 adapted to be folded over against the bed covers 7 and pillow 8 when the bed is up-ended into the recess as shown by the dotted line position of Fig. 1.

The outer end of the extended bed is supported on legs 9 pivoted at 10 to fold or hang downward when the bed is up-ended, and the forward or head end of the bed is pivoted at 11 on a horizontal axis so that it may be tilted or up-ended into the recess.

Pivots 11 are carried at the lower end of and on short legs or brackets 12 shown here as angle bars riveted to the main frame at 13 and angularly braced to the main frame by angular braces 13' as shown. The short legs 12 are best formed of angle bars at the two corners of the head of the bed arranged to form enclosing corners for holding the bed spring frame and mattress in place, the bed springs being here indicated as the member 14.

The head rail 6 of the bed may be of pipe construction as shown, or any other suitable construction, pivoted at opposite sides as at 15 to vertical angle bar supports 16 riveted to mem-

bers 12, and at opposite sides of the bed the head frame is provided with laterally extending lugs 17 firmly riveted to the head frame and each pivotally connected to the upper end of a link or guide rod 18, the lower end of which is pivoted at 19 to one of the fixed bed supporting brackets 20 which are also provided with open sockets to receive the main bed supporting pivots 11 which project outwardly from the short legs 12 of the bed.

These brackets are arranged one at each side of the bed as seen in Fig. 2 and are made of angle iron stock secured to the floor of the closet or recess as with screws 21, and each bracket is provided with an upright piece 22 riveted securely in place for the purpose of forming supporting stops for the bed when in upright position within the recess as shown in dotted lines in Fig. 1, or better in full lines in Fig. 3 where the angle bars 16 of the bed are shown resting upon the upper ends of the upright pieces 22 of the floor brackets 20. This view also shows the head rail or frame 6 of the bed turned to vertical position through the action of the guide rods 18 which force the lugs 17 to the right as the bed is up-ended, to make the head rail clamp against the bed pillow 8, and in the opposite direction when the bed is lowered so as to hold the head rail vertical when the bed is lowered to the horizontal.

To assist in raising the bed several spiral tension springs 23 are provided. These springs are hooked at their lower end to transversely extending plates 24 riveted to upright pieces 22, and at their upper ends to similar plates 25 riveted to members 12. There may be any number of springs depending on the weight or size of the bed.

By the arrangement described it will be noted that the horizontal pivotal axis 11 of the bed is brought forward close to the face of the recess or wall 1 and also elevated from the floor, and the result of the forward position of the pivots is that the bed is virtually brought out of the closet or recess when the bed is down so that the head of a sleeper upon the pillow is entirely out of the recess, and the result of the elevation of the pivots is a reduction of the depth of the recess. The particular point of elevation of the pivots depending on the total thickness of the bed when up-ended, for when properly located as shown in Fig. 1 there is no waste space in the recess.

Having thus described my improved construction in a wall bed of this type, I claim:

1. A closet recess type of wall bed comprising a bed frame, short legs at the head end of the bed, spaced brackets secured to the floor of the recess, one at opposite sides of the bed provided with upwardly extending supports arranged to form an open pivotal engagement with the short legs of the bed insertable from above, a pair of bed balancing springs on opposite side of each bracket extending from the bed at an angle downward and anchored to opposite sides respectively of the rearward portion of the bracket and transversely extending short yoke plates secured respectively to the bed and to the bracket to the opposite ends of which yoke plates the ends of the springs are secured.
2. A closet recess type of wall bed comprising a bed frame, short legs at the head end of the bed, spaced brackets secured to the floor of the recess, one at opposite sides of the bed provided with upwardly extending supports arranged to pivotally support the head end of the bed on a horizontal axis, a head frame pivotally supported to the bed at a point adjacent the top of the bed and provided with rearwardly projecting lugs, and controlling rods pivotally connected with said lugs and said brackets at points below the pivotal support of the bed, said rods of a length to hold said head frame vertical at both the in and out position of the bed.
- NEIL SINCLAIR.

20	95
25	100
30	135
35	110
40	115
45	120
50	125
55	130
60	135
65	140
70	145
75	150