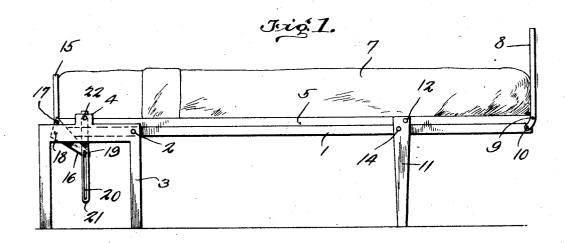
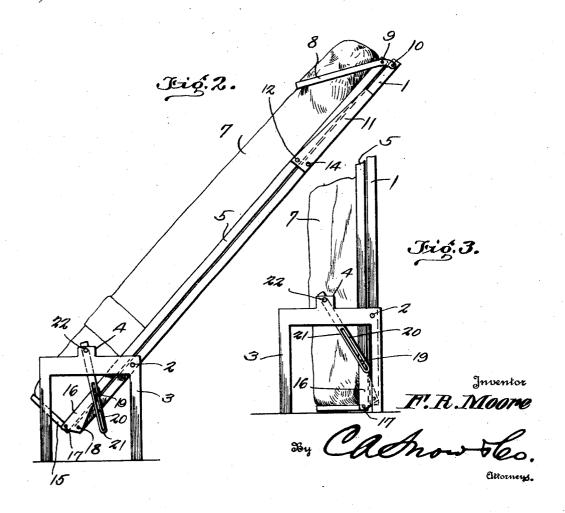
F. R. MOORE

FOLDING BED

Filed Nov. 15, 1927

2 Sheets-Sheet 1



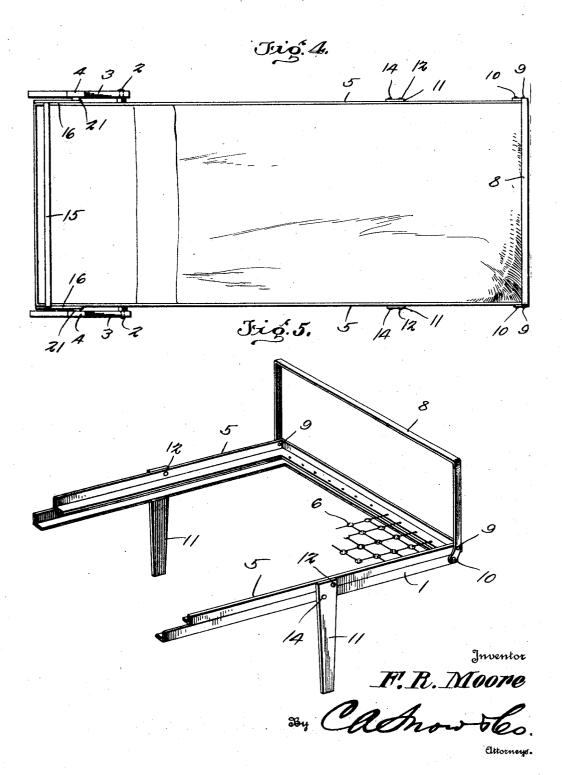


F. R. MOORE

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Filed Nov. 15, 1927

2 Sheets-Sheet 2



UNITED STATES PATENT OFFICE.

FRANK R. MOORE, OF GRAND JUNCTION, COLORADO.

FOLDING BED.

Application filed November 15, 1927. Serial No. 233,468.

It is the object of this invention to provide Legs 11 are provided, in the embodiment a bed so constructed that when it is swung disclosed, although the legs may be omitted upwardly, the bedding will be gripped and if desired, and any suitable supporting strucheld against sliding downwardly, lengthwise ture supplied in their place. The legs 11 are of the bed. Another object of the invention pivoted at 12 to the sides of the auxiliary is to provide novel means whereby the legs frame 5, and are pivoted at 14 to the sides of the bed will be folded, when the bed is of the main frame 1, the pivot elements 14

A further object of the invention is to provide novel means whereby the legs will be swung downwardly and the bedding re-leased, automatically, as the bed is swung at 17 to the auxiliary frame 5 and at 18 to downwardly to a horizontal position. Levers 16 are supplied, and are pivoted the main frame 1. The pivot elements 17

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the

invention appertains.

With the above and other objects in view 8, ceeds, the invention resides in the combination and arrangement of parts and in the and claimed, it being understood that alluded to as bell crank levers fulcrumed at invention herein disclosed, may be made being pivotally connected at 17 with the within the scope of what is claimed without auxiliary frame 5, and having limited sliddeparting from the spirit of the invention.

In the accompanying drawings:-Figure 1 shows in side elevation, a device constructed in accordance with the invention, the bed being lowered:

Figure 2 is a similar view wherein the bed

appears partly raised;

Figure 3 is an elevation wherein the bed has been completely raised, parts being broken away;

Figure 4 is a top plan;

Figure 5 is a fragmental perspective show-

40 ing one end of the bed.

The device forming the subject matter of this application comprises a main frame 1 which is pivotally mounted intermediate its ends, and nearer to one end than the other, 45 as shown at 2, upon inverted U-shaped supports 3, having upstanding lugs 4. An of the radius arm 21, and the radius arm auxiliary frame 5 is located above the main swings a little, but during the raising of frame 1 and is provided with any suitable means 6 for supporting the bedding 7.

A loop-shaped end member or bedding grip 8 is pivoted at 9 to the auxiliary frame 5 and is pivoted at 10 to the main frame 1, apart longitudinally of the bed, and verti- main frame 1. 55 cally as well, as Figure 1 clearly shows.

pivoted at 12 to the sides of the auxiliary co swung upwardly and when the bedding is and 12 being spaced apart both vertically and gripped.

A fixed head section 15 is secured to one end of the auxiliary 65

the main frame 1. The pivot elements 17 and 18 are spaced apart longitudinally of 70 the bed, as well as vertically. The levers 16 are located at that end of the bed which is remote from the loop-shaped end member The levers 16 have stude 19 which slide 29 which will appear as the description pro- in slots 20 formed in radius arms 21, the 75 upper ends of the radius arms being pivoted at 22 to the lugs 4 on the supports 3. For details of construction hereinafter described the sake of brevity, the parts 16 may be 25 changes in the precise embodiment of the 18 on the main frame 1, the bell crank levers 80 ing movement at 19-20 on the radius arms

When the bed is lowered, as shown in 85 Figure 1, the auxiliary frame 5 rests on the main frame 1, the legs 11 depend vertically at right angles to the frames 5 and 1, and the end member 8 stands at right angles to the frames 1 and 5. The operator swings 90 the bed upwardly on the pivot points 2, the auxiliary frame 5 moves lengthwise of the main frame 1, and as the bed is raised toward the vertical, the frame 5 tends to move downwardly, or to the left in Figure 95 2, the frame 5 and the bedding 7 upon it, exerting a pull on the grip 8 and causing the grip to hold the bedding firmly. During the operation of raising the bed, the lever 16 tilts, the stud 19 moves in the slot 20 100 the bed to a vertical position, no work is accomplished by the radius arm 21 or the lever 16, aside from the fact that the levers 105 16 aid in carrying the auxiliary frame 5, because they are pivoted at 17 to the auxilthe pivot elements 9 and 10 being spaced iary frame, and are pivoted at 18 to the

Suppose that the bed is swung down- 110

lever 16 reaches the upper end of the slot 20 in the radius arm 21. The radius arm 21 then act as stops which cause the levers 16 to tilt on their fulcra 18 and move the auxiliary frame 5 to the right in Figure 2, the bed grip 8 being raised, the legs 11 being 10 lowered, and the parts ultimately arriving in the positions shown in Figure 1.

What is claimed is:-

1. In a device of the class described, a support, a main frame pivoted to the sup-15 port, an auxiliary frame having means for supporting a bedding, an end member, means for pivotally connecting the end mem-ber with the main frame, means for pivotally connecting the end member with the support, a main frame pivoted to the support 20 auxiliary frame, the end member being tiltable to constitute a bedding grip, the auxiliary frame being movable longitudinally of the main frame to cause the end member to grip the bedding, a bell crank lever 25 fulcrumed on the main frame and pivoted intermediate its ends directly to the outer to the auxiliary frame, and a radius arm mounted to swing on the support, the bell crank lever having limited sliding connection with the radius arm, whereby the radius 30 arm will tilt the lever, move the auxiliary frame longitudinally of the main frame, and move the end member out of beddinggripping position when the main and auxillary frames have been swung downwardly bedding. 35 to a predetermined point.

support, a main frame pivoted to the support, an auxiliary frame, a leg pivoted

wardly below the position shown in Figure 2. Ultimately, and before the bed reaches the horizontal position, the stud 19 in the longitudinally of the main frame, when the bed is lowered, thereby to swing the leg out of alinement with the frames and into a position substantially at right angles to the frames, a bell crank lever fulcrumed on 45 the main frame and pivoted to the auxiliary frame, and a radius arm mounted to swing on the support, the bell crank lever having limited sliding connection with the radius arm, whereby the radius arm will tilt the 50 lever, move the auxiliary frame longitudinally of the main frame, and swing the leg as aforesaid, when the main and auxiliary frames have been swung downwardly to a predetermined point.

3. In a device of the class described, a for raising and lowering, an auxiliary frame located above the main frame and constructed to carry bedding: a bedding-grip 60 pivoted at its lower end directly to the main frame, the bedding-grip being pivoted end of the auxiliary frame, and the inner end of the auxiliary frame being carried 65 by the main frame independently of the support, whereby the auxiliary frame may respond readily to the weight of the bedding when the main frame is raised, slide longitudinally of the main frame, and 70 hold the bedding-grip engaged with the

In testimony that I claim the foregoing as 2. In a device of the class described, a my own, I have hereto affixed my signature.

FRANK R. MOORE.