W. W. LA VANWAY.

FOLDING BED.

APPLICATION FILED OCT. 22, 1913.

1,105,203.

Patented July 28, 1914.

2 SHEETS—SHEET 1.

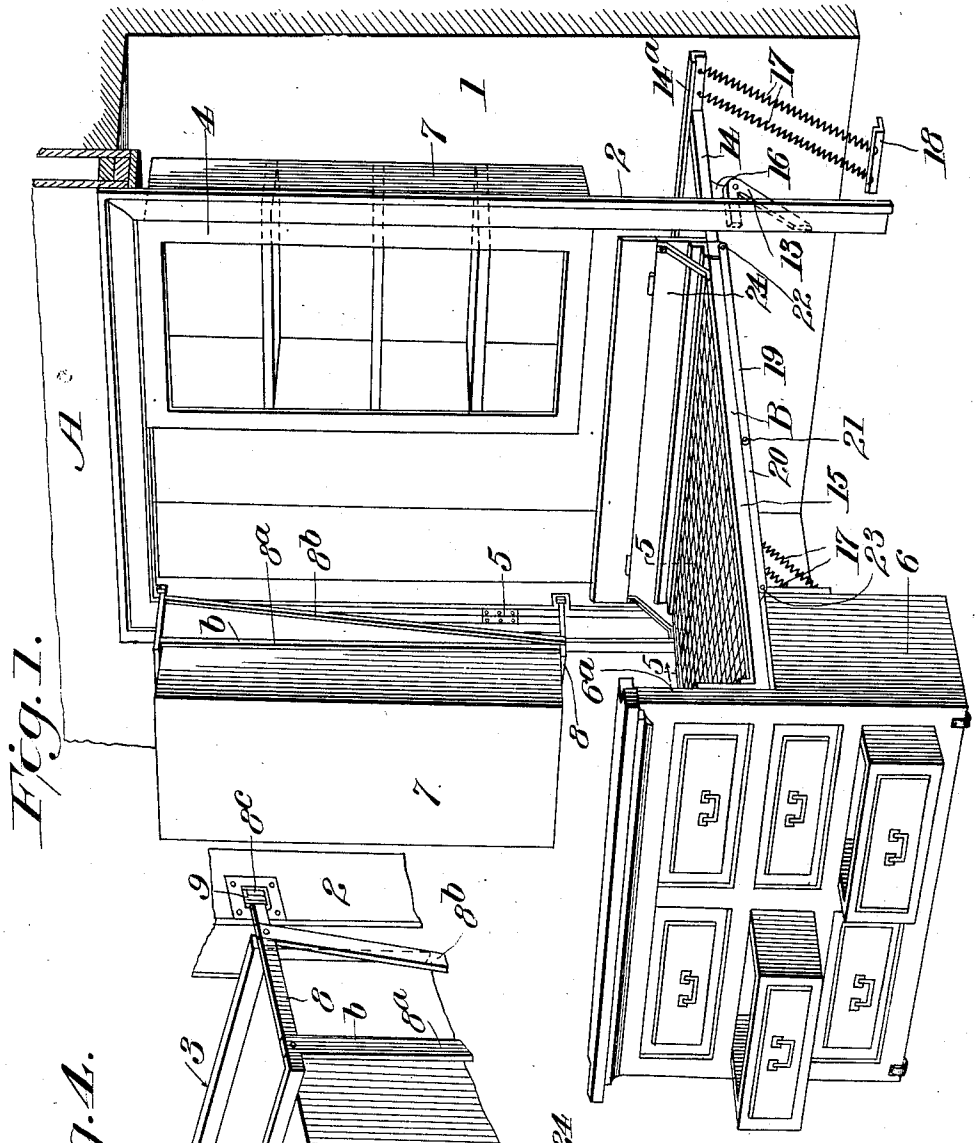


Fig. 1.

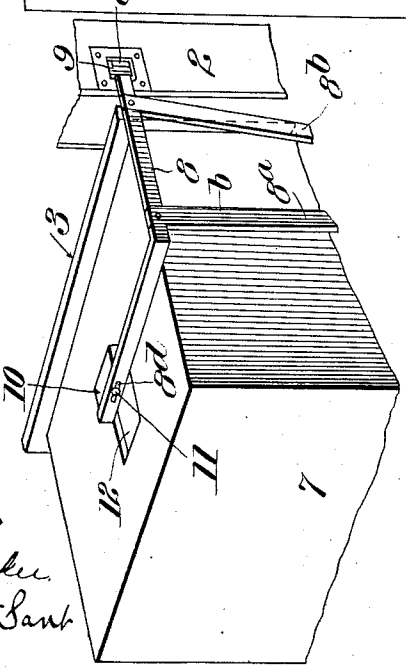


Fig. 4.

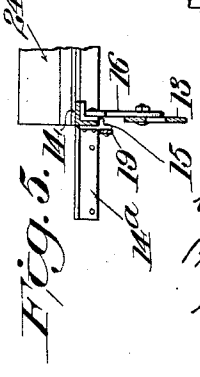


Fig. 5.

Witnesses

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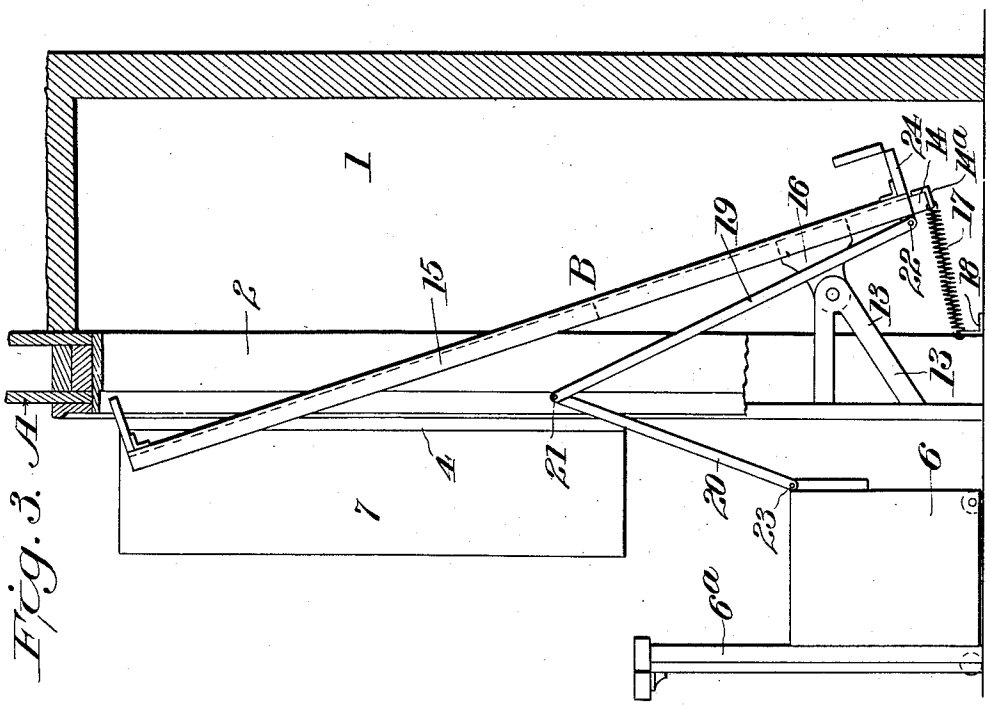


Fig. 3.

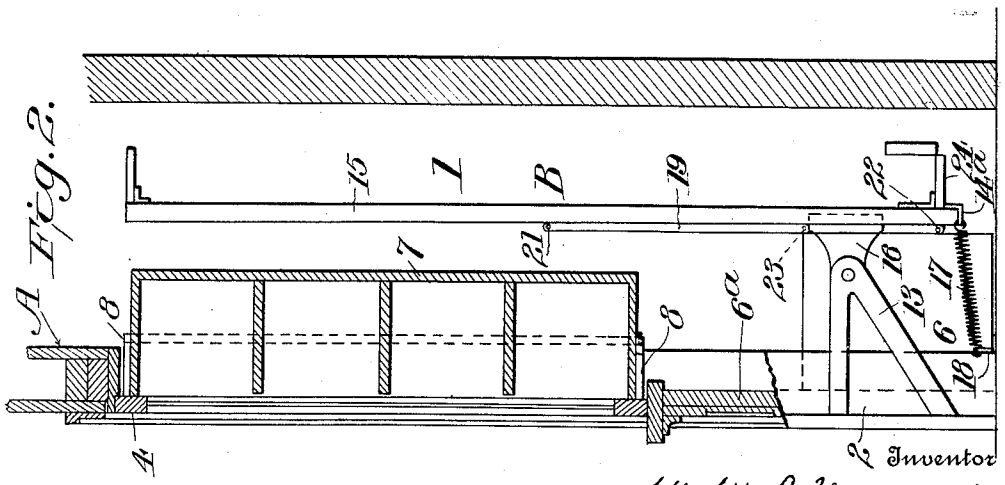


Fig. 2.

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FOLDING BED.

1,105,203. Specification of Letters Patent. Patented July 28, 1914.

Application filed October 22, 1913. Serial No. 796,654.

To all whom it may concern:

Be it known that I, WILLIAM WALLACE LA VANWAY, citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Folding Beds, of which the following is a specification.

This invention comprises improvements in beds adapted to fold into a suitable inclosure, such as a recess in the wall of a room.

The details and operation of my invention will be clear from the following description, taken in connection with the accompanying drawing, in which,

Figure 1 is a perspective view of the bed and inclosing structure, showing the bed unfolded; Fig. 2 is a vertical section through the housing inclosing the bed, the latter being shown in side elevation in folded position; Fig. 3 is a similar view showing the bed partly unfolded; Fig. 4 is a detail perspective view showing portions of one of the shelf casings and one of the doors in open positions; and, Fig. 5 is a section through the bed frame on the line 5—5 of Fig. 1.

Referring to the drawing, A indicates the wall of a room in a building, which wall is provided with a door-way leading into a recess or alcove 1 at the rear of the wall, said door-way being provided with a door-frame 2. Doors 3 and 4 hinged, as indicated at 5, to the sides of the door-way, are adapted to open and close the upper part of the door-way, and a drawer casing 6, movable upon the floor of the room, is adapted to fit between the side posts of the door-frame and beneath the doors, and to close the lower part of the door-way, as illustrated in Fig. 2. At the rear of the doors are arranged shelf casings 7 which swing upon brackets *b*, through the door-way from the closed position shown in Fig. 2 and at the right in Fig. 1, to the open position shown in Fig 3 and at the left in Fig. 1. Each bracket *b* comprises two small right angled bars 8 arranged, respectively, at the top and bottom of each casing, and connected together by vertical and inclined bars 8^a and 8^b. One arm of each of the bars 8 has a hooked end 8^c which engages and is pivoted upon a pin 9, set into the upright post of the door-frame back of the line of the hinges upon which the doors are swung. The other arms of the bar 8 are slotted, as shown at 8^d, and connected to blocks 10 by bolts 11 passing through said slots, the blocks 10 being adjustable forward and backward in slots 12 in the ends of the casing. The doors and shelf casings swing about different centers in closing and opening, and the adjustment provided by the sliding blocks 10 is desirable in order that the casings may be pulled forward relatively to the brackets after being swung to their closed position, so that the doors, when the latter are closed, will fit closely against the front of the casing.

Secured to the sides of the door-frame, and projecting rearwardly into the recess or inclosure 1, are supporting brackets 13 upon which the mattress frame B is pivoted. The mattress frame comprises a short head section 14 and a main section 15, in sliding engagement with the head section. The head section has, on its lower side, projecting ears 16 which are pivotally connected to the brackets 13. Springs 17 connect the end bar 14^a of the head section with suitable cleats 18 on the floor, and these springs tend to hold the bed frame in its upright position. The head end of the main section of the mattress frame is connected at each side with the drawer casing 6 by a pair of rods 19 and 20, which are hinged together as shown at 21, and hinged to the main section and to the drawer casing as shown at 22 and 23, respectively. These rods serve as spacing members to locate the drawer casing at a fixed distance from the head of the main section when the latter is swung down into the horizontal position, as shown in Fig. 1, but when the bed is moved to the folded position, the hinged connections of the rods permit the latter to fold as indicated in Figs. 2 and 3.

When the mattress frame is in folded position, the main section, to which the headboard 24 is attached, is telescoped with the head section and thus the total length of the folded mattress frame is less than the height of the door-way. To unfold the bed the doors and shelf casings in the upper part of the door-way are swung to open positions and the drawer casing is moved forwardly and at the same time, the mat-

tress frame is swung forwardly about its pivotal points until the rods 19 and 20 and the mattress frame assume the horizontal position, when the foot of the mattress frame will rest upon the drawer casing, and behind the upward extension 6^a of the latter. In folding the bed the mattress frame is swung upwardly, the springs 17 assisting in its movement, and the drawer casing is moved backward into the position shown in Fig. 2. The rear end of the drawer casing then abuts against the mattress frame, as shown in the latter figure. The shelf casings and the doors are then closed and the bed is hidden from view.

What I claim is:

1. The combination with an inclosure having a doorway and bearings or supports within said inclosure at the lower part thereof, of a mattress frame comprising a head section pivoted in said supports and a main section in sliding engagement with the head section, a rest for the foot of said main section movable back and forth into and out of said doorway, and rods pivotally connected together and pivotally connected, respectively, to said rest and to the head of the main section of the mattress frame.

2. The combination with an inclosure having a doorway and bearings or supports within said inclosure at the lower part thereof, of a mattress frame comprising a head section pivoted in said supports and a main section in sliding engagement with the head section, a drawer casing movable back and forth into and out of said doorway, and rods pivotally connected together and pivotally connected, respectively, to said drawer casing and to the head of the main section, said drawer casing adapted to support the foot of the main section when the bed is unfolded.

3. The combination with an inclosure having a doorway and bearings or supports within said inclosure at the lower part thereof, of a mattress frame comprising a head section pivoted in said supports and a main section in sliding engagement with the head section, a drawer casing movable back and forth into and out of said doorway, and rods pivotally connected together and pivotally connected, respectively, to said drawer casing and to the head of the main section, said drawer casing adapted to support the foot of the main section when the bed is unfolded and to close the lower part of said doorway when the bed is folded.

4. The combination with an inclosure having a doorway and bearings or supports within said inclosure at the lower part thereof, of a mattress frame comprising a head section pivoted in said supports and a main section in sliding engagement with the head section, a drawer casing movable back and forth into and out of said doorway, and rods pivotally connected together and pivotally connected, respectively, to said drawer casing and to the head of the main section, said drawer casing adapted to support the foot of the main section when the bed is unfolded and to close the lower part of said doorway when the bed is folded, and hinged doors for closing the upper part of said doorway.

In testimony whereof I have affixed my signature, in presence of two witnesses.

WILLIAM WALLACE LA VANWAY.

Witnesses:
L. C. GIFFARD,
L. HILGEN.