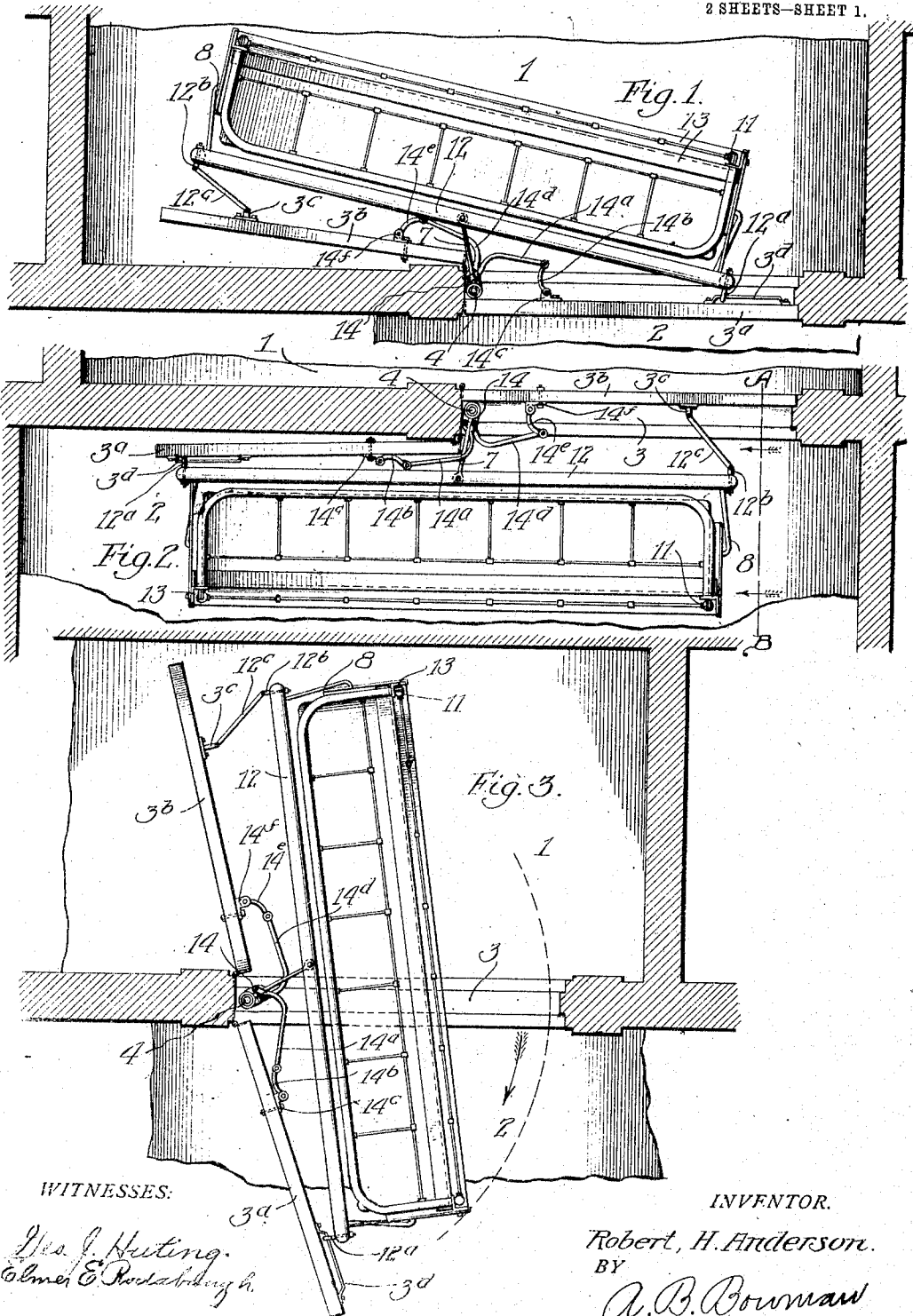


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WALL OR RECESS BED.
APPLICATION FILED AUG. 28, 1911.

1,015,376.

Patented Jan. 23, 1912.

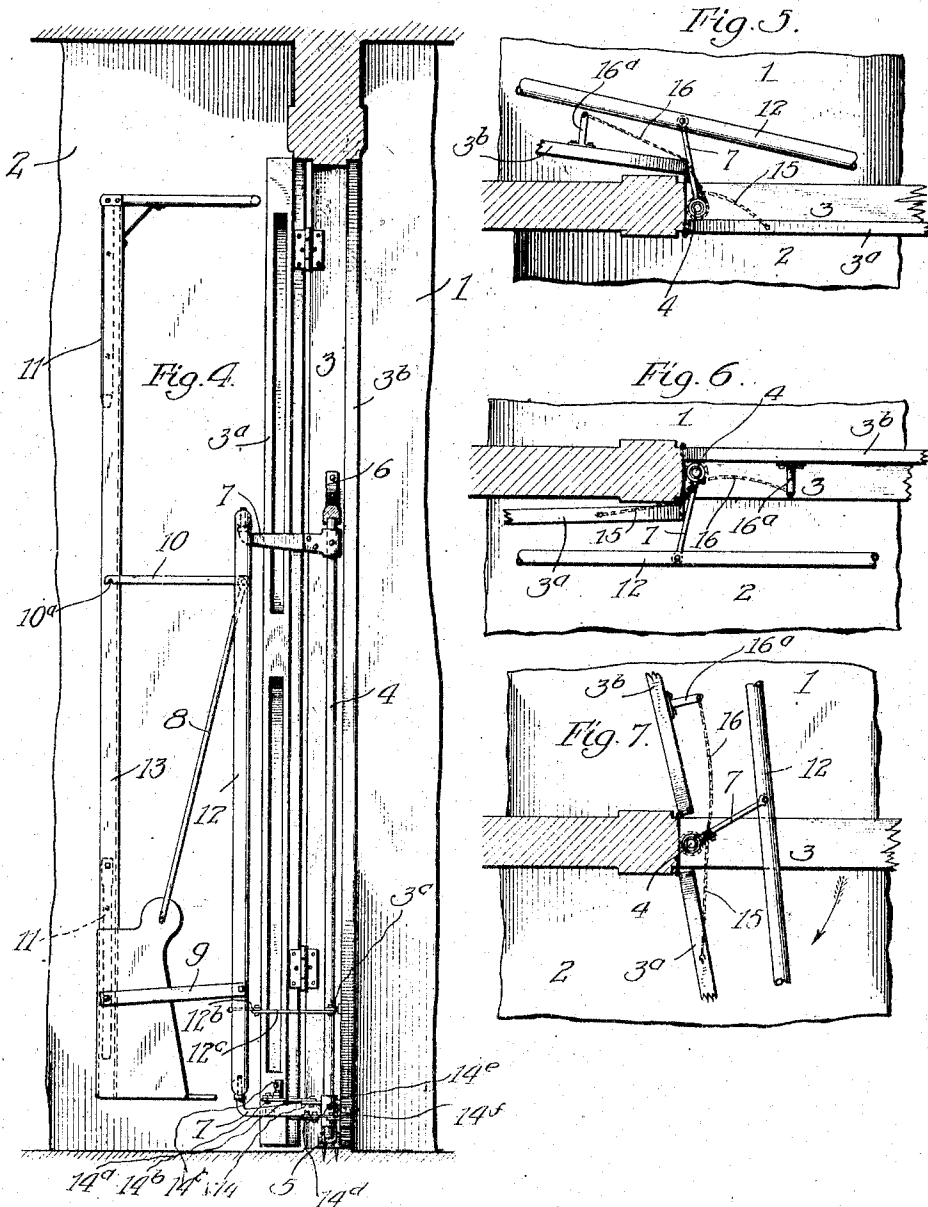
2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.



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ROBERT H. ANDERSON, OF SAN DIEGO, CALIFORNIA.

WALL OR RECESS BED.

1,015,376.

Specification of Letters Patent.

Patented Jan. 23, 1912.

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To all whom it may concern:

Be it known that I, ROBERT H. ANDERSON, a citizen of the United States, and a resident of San Diego, in the county of San Diego and State of California, have invented certain new and useful Improvements in Wall or Recess Beds, of which the following is a specification.

My invention relates to wall or recess beds adapted to occupy the space in a wall, closet or recess when the bed is not in use, but which is turned down into a room when it is desired for use.

The objects of the invention are, first, to provide a simple, economical and easily operated bed of this class, second, to provide one which requires only a small space when in use and a minimum of depth of space and a minimum of space for entrance into and out of space in the wall, recess or closet, third, to provide a bed of this character which can be readily installed in closets, recesses, etc., without special preparation therefor.

With these and other objects in view as will appear, my invention consists of certain novel features of construction, combination and arrangement of parts as will be hereinafter described in detail, and particularly set forth in the appended claims, reference being had to the accompanying drawings, and to the characters of reference thereon, which form a part of this specification, in which:—

Figure 1 is a sectional view of a recess showing a top view of my bed and supporting parts in their positions in said recess, Fig. 2 is a similar view showing the bed in position ready to be turned down for use, Fig. 3 is a sectional view showing the entrance to the recess with the bed partially turned therein, Fig. 4 is a side elevational view showing the bed folded up ready to be turned down for use, Fig. 5 is a detail sectional view showing a portion of the bed and the operating mechanism in a modified form to that of Fig. 1, the bed being in the same position, Fig. 6 shows a slightly modified form of the operating mechanism shown in Fig. 2, the bed being in the same position, and Fig. 7 shows a slightly modified form of the mechanism shown in Fig. 3, the bed being in the same position.

Similar characters of reference refer to similar parts throughout the several views.

In the drawings, numeral 1 represents the recess, or closet in which the bed is placed when not in use, 2 represents a room in which the bed is used, 3 represents a doorway between the recess and room. This doorway is provided with two doors 3^a and 3^b mounted on the one door jamb, one on the inner and the other on the outer edge of said jamb. One door is for the purpose of closing the doorway when the bed is in the recess, and the other is for the purpose of closing the doorway when the bed is in the room for use. In the side of the doorway centrally between the two doors is pivotally mounted a vertical shaft 4, which is mounted upon a bearing 5, at the bottom, and held in position at the top by means of bearing 6. This shaft 4 is provided near the top and bottom with arms 7 which are rigidly attached thereto. However, in case it is desired, the shaft 4 may be rigidly mounted in the position as shown, and the arm 7 may be pivotally mounted thereon. On the extended end of arms 7 is pivotally mounted the head frame 12 of a folding bed, the outer ends of said arms are provided with vertical extensions adapted to fit into holes in said head frame of the bed. The bed frame 13 is foldably mounted on this head frame, and may be any folding bed frame desired, but I prefer the construction as shown in the accompanying drawings, described as follows:—The bed frame is mounted on said head frame by means of two tension rods 8, one on each side of said frame, and pivotally attached at one of their ends to said head frame, near the top, and at their other ends to the bed frame, some distance back from the head end. Near the bottom of said head frame are also pivotally attached two thrust rods 9, which extend to and are attached to the bed frame between the pivotal mountings of rods 8, and the head end of the bed frame near the bottom of the bed frame when down. Pivotal mounted on said head frame near the top is also rod 10, the extended end of which is adapted to hook on a pin 10^a in the bed frame, for the purpose of holding the bed in its folded position as shown best in Fig. 4, but when it is released, it will drop down parallel with the head frame. This bed frame is supported when down by means of legs 11, which are pivotally mounted on said bed frame. The head frame 12 is slidably attached to the door 3^a by means of lug

12^a slidably mounted on guide rod 3^a, and it is attached at the other side to door 3^b by means of a lug 12^b to which is pivotally attached arm 12^c, which is pivotally attached to lug 3^c rigidly attached to door 3^b near its outer edge. These connections to the doors are for the purpose of automatically moving the bed frame in and out of the recess by simply opening and closing the doors.

When the door 3^a is fully opened, the door 3^b is closed, and when the door 3^b is fully opened the door 3^a is closed. In order to provide for a narrow doorway between the recess and room, there is provided a mechanism connected to said shaft 4 and to the doors 3^a and 3^b, the preferable construction of which is shown in Figs. 1, 2, 3, and 4. Mounted on the shaft 4 near the bottom is the lug 14 in approximately the same relative position to said shaft as the arm 7. Pivotally mounted on the top side of lug 14 is curved rod 14^a which is pivotally connected to rod 14^b which is pivotally mounted on lug 14^c which is rigidly attached to door 3^a. On the lower side of said lug 14 and opposite to the mounting of rod 14^a is pivotally mounted another curved rod 14^d which is pivotally connected to rod 14^c which is pivotally mounted on lug 14^f, which is rigidly attached to door 3^b. These levers are for the purpose of swinging the bed edgewise relatively to the doors after reaching the proper position in its inward and outward movements as shown in Fig. 3, thus allowing the use of a very narrow doorway.

In Figs. 5, 6, and 7, I have shown a modified construction from that shown in Figs. 1, 2, and 3, for thrusting the bed frame edgewise relatively to the door. In this case a chain 15 is attached at its one end to the lower surface of the door 3^a, while the other end is attached to the side of arm 7. On the door 3^b is also mounted another chain 16, which is attached at its one end to lug 16^a, which is rigidly attached to said door 3^b, and the other end is wound around the hub of arm 7, and the extended end thereof is attached to a pin in said hub.

Though I have shown and described a particular construction of a bed frame, and its mountings, I do not wish to be limited to this particular bed frame, but desire to use in connection with the mountings, different styles of folding beds, and I do not wish to be limited to this particular construction of shifting the bed relatively to the doors, nor to the pivotal mountings of said bed frame in said doorway, but desire to include in the purview of my invention, the construction substantially set forth in the appended claims, particularly, the position of the pivotal mountings centrally in one side of the doorway. It will be noted here that the door 3^a with its attachments and connections to

the head, frame, are not necessary to this bed construction, but is desirable for the purpose of closing the recess when the bed is in use.

It is obvious that with the construction as illustrated and described, there is provided a recess or wall bed that is simple of construction, automatic in its operation with the opening and closing of the doors; that it requires but a minimum of doorway width; that it requires but a minimum recess depth, and further that this bed construction can be installed in closets now in use, having very narrow doorways, without special preparation except for the installing of the parts.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A wall or recess bed, comprising a vertical shaft mounted centrally in a doorway to one side thereof, horizontal arms rigidly mounted on said shaft, a bed frame pivotally mounted on said horizontal arms, and means connected to said bed frame and to said shaft adapted to shift the bed relatively to said pivotal mountings, all substantially as set forth.

2. A wall or recess bed comprising a vertical shaft pivotally mounted on a bearing centrally in the threshold in the one side of a doorway, horizontal projecting arms each provided with a vertical extension rigidly mounted on said shaft, a bed frame pivotally mounted on said vertical extension, doors for closing said doorway, and means connected with said doors and said bed frame adapted to shift the bed edgewise relatively to said doorway, all substantially as set forth.

3. A device of the character described, comprising a door frame in the wall of a receptacle, opposite swinging doors hinged on the same side of said door frame, a vertical shaft pivotally mounted centrally and adjacent to the hinged sides of said doors, horizontal arms rigidly mounted on said shaft, a bed frame pivotally mounted on said horizontal arms, curved lever means connecting with said shaft, with said doors and with said bed frame for shifting said bed frame edgewise, relatively to said doors, in its inward and outward movement in said receptacle, all substantially as set forth.

4. In combination, a door frame, of a receptacle, doors hinged at one side of said door frame, a vertical shaft pivotally mounted centrally and adjacent to the hinged sides of said door-frame, horizontal arms rigidly mounted on said shaft, a bed frame pivotally mounted on said horizontal arms, curved lever means connecting with said shaft, with said doors and with said bed-frame for shifting said bed-frame edgewise relatively to said doors, in its movement into

and out of said receptacle, all substantially as set forth.

5 In combination with a receptacle provided with a doorway into said receptacle, of a door hinged at one side of said doorway, a vertical shaft pivotally mounted centrally and adjacent to the hinged side of said door, horizontal arms rigidly mounted on said shaft, a bed frame pivotally mounted on said horizontal arms, means connected with said shaft, with said doors and with said bed-frame for shifting said bed-frame edgewise relatively to said door, in its movements into and out of said receptacle, all substantially as set forth.

10 6. In combination with a receptacle provided with a doorway, of doors hinged at one side of said doorway, a vertical shaft pivotally mounted centrally and adjacent to the hinged sides of said doorway, horizontal arms rigidly mounted on said shaft, a bed-

stead head frame pivotally mounted on said horizontal arms, tension rods pivotally mounted on said head-frame, a bed-frame pivotally mounted on said tension rods, thrust rods pivotally mounted on said head-frame and on said bed frame between and below said tension rods, a bed-frame pivotally mounted on said horizontal arms, curved lever means connecting with said shaft, with said doors, and with said bed frame for shifting said bed frame edgewise relatively to said doors, in its movement into and out of said receptacle, all substantially as set forth.

In testimony whereof, I have hereunto subscribed my name in the presence of two subscribing witnesses.

ROBERT H. ANDERSON.

Witnesses:

ABRAM B. BOWMAN,
GEORGE J. HUTING.