March 22, 1927. 1,621,885

B. L. JONES

WALL BED

Filed April 15, 1924 2 Sheets-Sheet 1

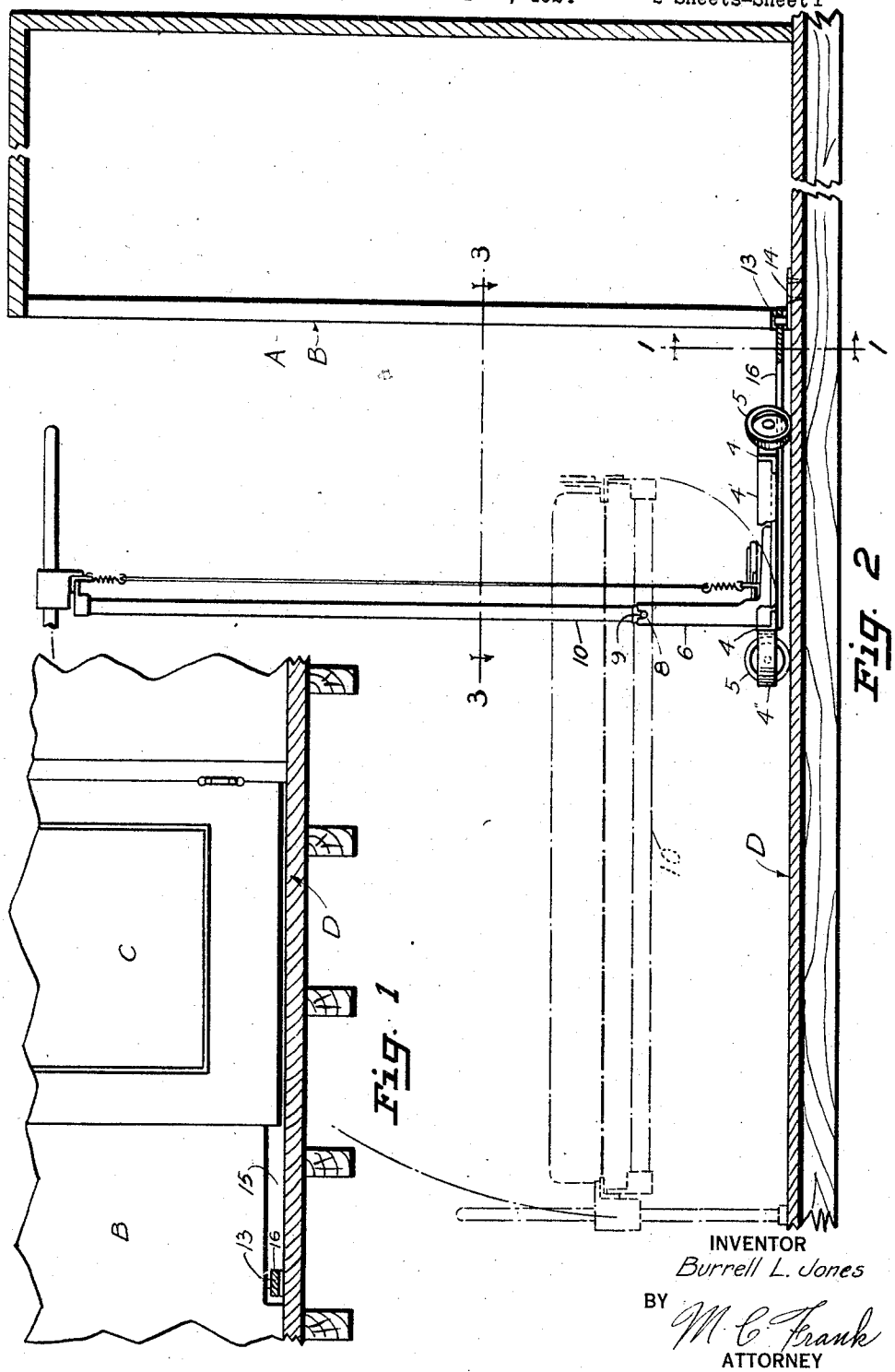


Fig. 1

Fig. 2

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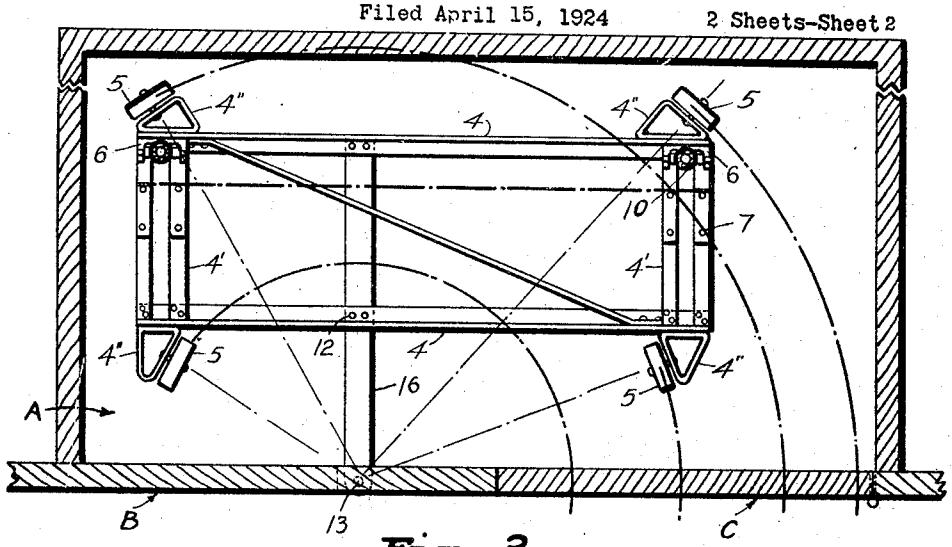


Fig. 3

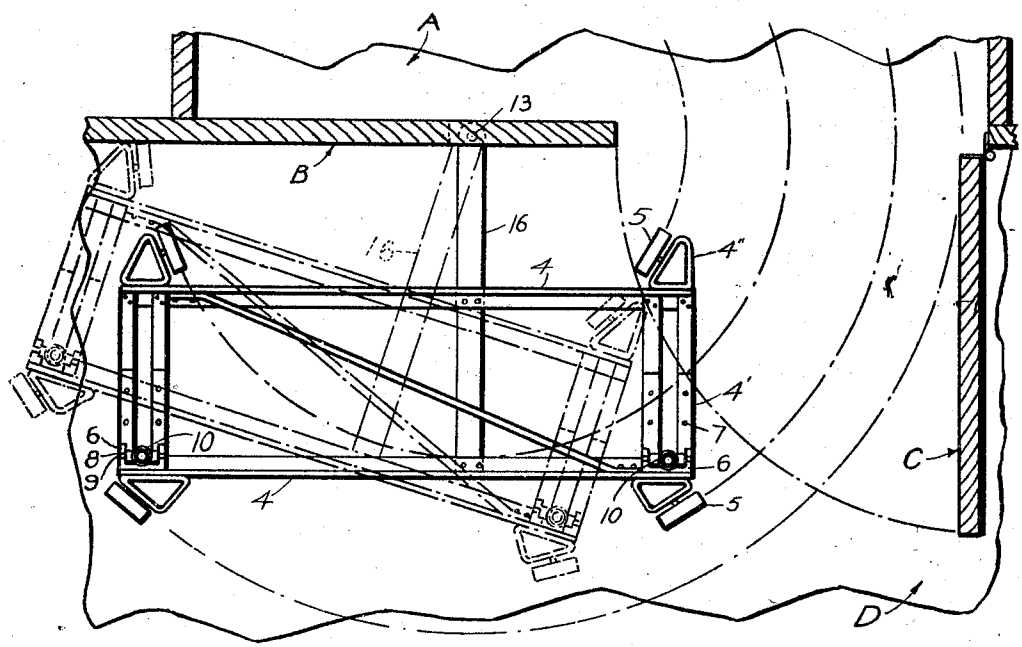


Fig. 4

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UNITED STATES PATENT OFFICE.

BURRELL L. JONES, OF OAKLAND, CALIFORNIA.

WALL BED.

Application filed April 15, 1924. Serial No. 706,662.

My invention relates to improvements in wall beds, and has for its primary object to provide a bed of this general type that can be housed in a relatively small closet space and at the same time leave sufficient room within the closet for dressing purposes.

As heretofore practiced, wall beds housed in closets have required practically all of the closet space, due not so much to the small area of the closet, but on account of the way that they were accommodated. It is my intention to employ a relatively small closet of more or less standard design and a doorway and single standard door therefor so as to avoid special cabinet and the like work.

Another feature of my invention resides in the bed assembly and the means for moving the same into and out of the closet with convenience and dispatch.

According to the salient features of the invention, I can use a plain and ordinarily constructed closet as a housing, the same having a standard door and doorway and with the bed assembly pivoted in such relation to the closet space and doorway, that it may be easily moved in a fixed path in and out of the closet and be housed therein so as to leave a dressing space within the closet behind the door without moving the bed out of the closet. This is quite an advantage when it is considered that in heretofore known types of closet beds it has always been necessary to move the bed out of the closet to have dressing space or else provide a large or deep closet at additional expense.

The preferred embodiment of the invention is illustrated in the acompanying drawing, in which:

Figure 1 is a view in front elevation of the outside of a wall closet showing the door thereto, and is taken along the line 1—1 of Fig. 2. Fig. 2 is a vertical section of the closet showing the doorway and with the bed moved out onto the floor space of the room. Fig. 3 is a plan of the closet along the line 3—3 of Fig. 2, showing the stored position of the bed therein and the closet walls in horizontal section; and Fig. 4 is a similar view along the same line but showing the bed moved out into the room.

Referring now to the drawings in detail: the letter A represents the closet, B the room wall, C the closet door, and D the floor.

According to the preferred form of my invention, I have employed a carriage preferably made up of angle iron having parallel side members 4 and a pair of parallel members 4′ for each end. Fixed to the side members at each corner of the carriage frame is a triangular metal bracket 4″ for supporting a small wheel or roller 5. These wheels 5 are mounted with their axes at different angles to the frame, so that each one has a predetermined fixed path of travel when the bed is swung in and out of the closet. This is clearly shown in Figs. 3 and 4.

Mounted upon the end members 4′ of the frame are a pair of metal L-shaped standards 6 of channel iron design, each one having a relatively long attaching foot riveted or otherwise secured to the end members 4′ of the frame as at 7. The upstanding ends of these standards extend vertically of the frame and terminate in trunnion bearings 8 for the trunnions 9 on the side bars 10 of the bed. With this construction the bed may be pivotally mounted upon the carriage frame so that it may swing to a vertical or upstanding position as shown in full lines, Fig. 2, or to a horizontal position for sleeping purposes as shown in dot-and-dash lines same figure.

To mount the carriage frame, with the bed carried thereby so that the entire assembly may be moved into and out of the closet, I have elected to use a horizontal bar arm or the like 16. The same is riveted or otherwise secured across the side members 4 of the frame as at 12. The opposite end of this arm is made with an opening to receive the pin 13 on the end of a floor plate 14, Fig. 2. This connection pivotally connects the arm in the vertical plane of the wall B without obstructing the doorway, so that it will permit the bed to swing into and out of the closet and at the same time guide and restrain the same so that it is limited to move only in a fixed circular path around the pivot. To allow for the swinging movement of the arm 16, the wall B will be slotted as at 15 from the pivot to the door opening as shown to advantage in Fig. 1.

In manipulating the bed consider that the same per se is down and in a horizontal position out in the room as shown by the dot-and-dash lines of Fig. 2. It will be first lifted to a vertical position as shown in full lines, Fig. 2, then the door C opened and the entire assembly will be pushed toward the closet through the doorway until

it reaches its limit of movement when it will stop in a position as shown in Fig. 3. The door may then be closed.

It is to be noted that the novel housing arrangement for the bed in the closet is best realized by securing the arm 16 to one side of the middle of the frame, and to place the pivot or pin 13 in proper position with respect to the doorway. This spacing, so to speak, is essential to enable the bed to move out of the doorway and also to enable it to occupy the space to one side of the doorway.

To move the bed into and out of the closet it is simply pushed, and as the frame is on wheels little effort will be required. The arm will guide the movement and the operator need not pay any attention to guiding.

The bed may be turned down to horizontal position when the same is out in the room and angularly raised to vertical position when the assembly is to be moved into the closet. Owing to the fact that I have devised the assembly to accommodate it to standard doorways, it can easily be applied to existing closets where the space is sufficient without changing the dimensions or position of the doorway.

A bed constructed in accordance with the invention is usually adapted to apartments and other dwellings where space is at a premium, and the cheapness of the construction is also an added advantage not to be overlooked.

I admit that attempts have been made in the prior art to mount bed frames on a single pivot for swinging the beds in or out of a closet, but in order to accomplish this purpose the inventors have seen no other way than, either to obstruct the doorway and to provide unusually large and specially built closets for storing the beds therein, or to pivot the bed frames in two or more places. It is observed that any obstruction in a doorway for a bed closet, no matter how large a closet is, is impractical, since it may cause a person to stumble and fall when entering the closet or exiting therefrom, and two or more pivotal connections for the bed frame complicate the operation of swinging the bed to the desired position.

In Fig. 4, the dot-and-dash lines represent the assembly swung to its limiting position in the room, in order to permit the door C to be closed. Thus it will be seen that the single standard 2′—6″ door may be easily employed in combination with my bed assembly, and that the door can be closed with the bed in or out of the closet, a feature much desired in small rooms.

Having thus illustrated and described my invention, what I claim as new and desire to secure by Letters Patent of the United States is the following:

In combination, a wheeled frame having a bed pivotally mounted thereon so that the bed can be raised to an upright position or lowered to a horizontal position, pivotal means rigidly secured to one side of the centre of said frame and rotatably mounted on a single pivot in the vertical plane of and adapted to swing through a wall adjoining the doorway of a closet, a cut out portion in said wall accommodating said pivot and rollers at the corners of said frame having their axes extending along radii from said pivot so that the frame can be swung by one circular movement from the interior of the closet away from the door to a position outside the closet allowing the closing of the door.

In testimony whereof I affix my signature.

BURRELL L. JONES.