

W. L. MURPHY.
DISAPPEARING BED.
APPLICATION FILED OCT. 13, 1913.

1,083,504.

Patented Jan. 6, 1914.

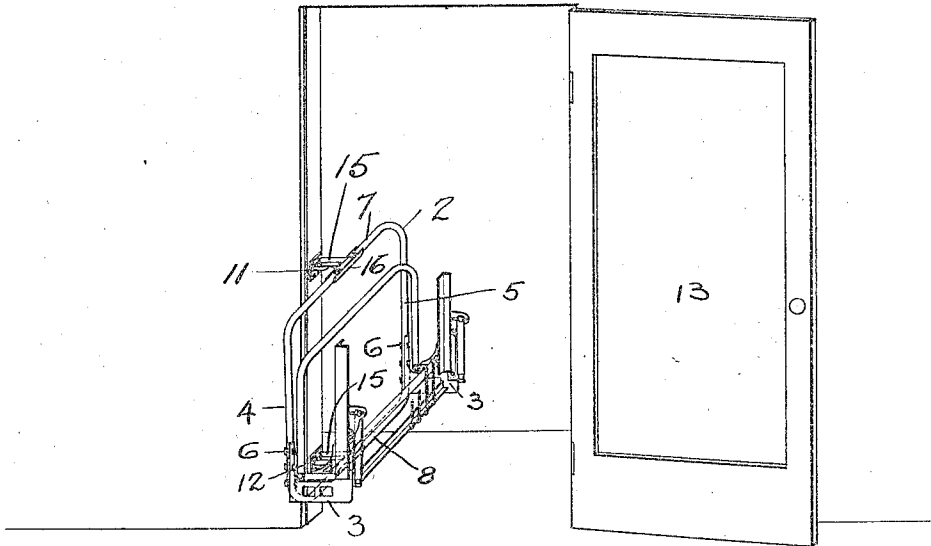


Fig. 1.

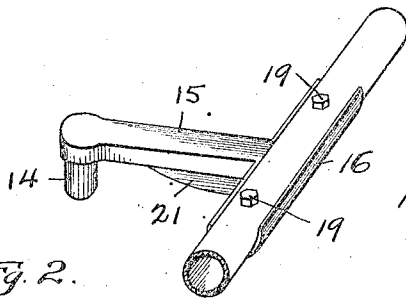


Fig. 2.

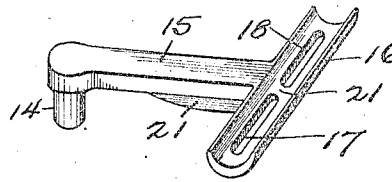


Fig. 4.

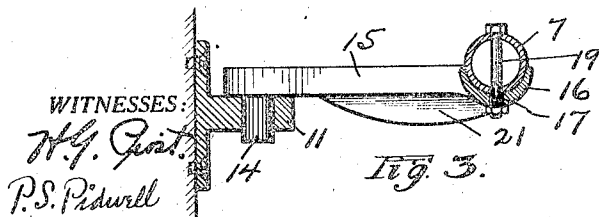


Fig. 3.

WITNESSES:
H. J. Frost
P. S. Pidwell

INVENTOR.
W. L. MURPHY
BY Miller White
his ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM L. MURPHY, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR TO MURPHY WALL BED COMPANY, OF SAN FRANCISCO, CALIFORNIA, A CORPORATION OF CALIFORNIA.

DISAPPEARING BED.

1,033,504.

Specification of Letters Patent.

Patented Jan. 6, 1914.

Application filed October 12, 1913. Serial No. 794,350.

To all whom it may concern:

Be it known that I, WILLIAM L. MURPHY, a citizen of the United States, and a resident of the city and county of San Francisco, State of California, have invented certain new and useful Improvements in Disappearing Beds, of which the following is a specification.

The invention relates to disappearing beds and more particularly to that type of disappearing beds known as wall beds.

The object of the invention is to provide means for standardizing wall bed construction.

The invention possesses other advantageous features, which, with the foregoing, will be set forth at length in the following description where I shall outline in full that form of the invention which I have selected for illustration in the drawings accompanying and forming part of the present specification. The novelty of the invention will be included in the claims succeeding said description. From this it will be apparent that I do not limit myself to the showing made by said drawings and descriptions, as I may adopt modifications within the scope of my invention as set forth in said claims.

Referring to said drawings: Figure 1 is a perspective view of a bed frame mounted in accordance with my invention, part of the frame being broken away to better disclose the invention. Fig. 2 is a perspective view of the supporting arm of my invention showing a section of the carrying frame bolted thereto. Fig. 3 is a cross section through the arm and bed frame on the line of one of the bolts. Fig. 4 is a perspective view of the arm.

The invention relates to disappearing beds which are mounted at or adjacent one side of an opening in a wall, so that the bed may be moved through the opening to lie on either side of the wall, the bed being wider than the opening. In order to accomplish this result, the bed is pivotally attached intermediate between its sides or projections of its sides to a support or supports arranged at or adjacent to one side of the opening. The point of connection between the bed frame and its supporting means is so located, with respect to the sides of the bed, that the bed may be swung through the

opening without striking the sides of the opening. The wall openings which are encountered in installing the beds are of various widths and heretofore it has been necessary to construct the beds specially or differently to accommodate them to the different sized openings. The present invention obviates this necessity and provides a standard construction which may be arranged to comply with the various conditions that are met. The beds may also be mounted at either side of the opening without reversing the bed with respect to the carrying frame, by adjusting the position of the supporting arms with respect to the carrying frame.

The bed frame is preferably supported on a carrying frame 2, by means of brackets 3 or other suitable structures, which are attached to the side rails 4—5 of the carrying frame by means of suitable bolts 6. The bed frame is pivotally mounted on the brackets so that it is movable in a vertical arc from a vertical to a horizontal position and vice versa. The carrying frame is preferably formed of a single piece of tubing or metal, the top and bottom rails 7—8 of which are preferably horizontal.

Secured to one side of the opening, adjacent the top and bottom rails of the carrying frame, are suitable bearings or eyes 11—12, to which the carrying frame is pivoted. The wall opening is usually provided with a door 13, which may be hinged at the side of the opening at which the bed is mounted, or which may be hinged to the opposite side of the opening. The bearings 11—12 are usually secured to the door framing, although the lower bearing 12 may be arranged in the floor when desirable.

Engaging in the bearings 11—12 are the pintles 14 of the arms 15, which are provided at their opposite ends with transversely extending seats 16 which are preferably formed lune-shape in cross section, to correspond to the cross section of the rails 7—8. The seats 16 are provided with an elongated slot or slots 17—18 extending longitudinally thereof, through which pass the bolts 19, which also pass through holes in the rails of the carrying frame, so that the frame may be securely bolted to the seats. In the present construction, I employ two aligned slots 17—18 lying on opposite sides of the central integral rib 21, which extends

along the under side of the arm and seat, thereby providing a strong construction. The bolts 19 passing through either of the rails 7-8 are preferably located to one side of the center line of the carrying frame and are spaced apart a distance approximately the distance between the corresponding ends of the slots 17-18. When the bolts are loosened, therefore, the frame 2 may be moved longitudinally relative to the arms, a distance equal to the length of one slot, without removing the bolts, and this range of adjustment is generally sufficient to accommodate the bed to the various sized openings encountered. The holes in the frame, through which the bolts pass, are so placed that for the average opening, the bolts lie practically midway between the ends of the slots. By removing the bolts, the bolt hole which normally registers with slot 17 may be moved to register with slot 18 or vice versa, thereby allowing a maximum adjustment of substantially three times the length of one of the slots. By this construction the position of the carrying frame and bed frame may be varied with respect to the pivotal point by very small or greater distances so that the bed may be freely swung through openings of different sizes from either side of the openings, without in any way varying the construction of the bed. In wall bed construction in which the opening is narrower than the bed, it is desirable that the opening be as narrow as possible and very careful adjustment is often necessary in order that the bed may swing through the opening without contacting

with the sides thereof, or with the rear wall of the closet.

I claim:

1. In a wall bed, the combination with a wall having an opening therein, of a bed frame of greater width than said opening, a carrying frame on which said bed frame is mounted, a pair of arms journaled at one side of the opening and connected to said carrying frame, said arms being provided with slots arranged parallel to the transverse axis of the carrying frame and bolts engaging in said slots and passing through holes in the carrying frame, whereby the carrying frame may be adjusted transversely with relation to said arms.

2. In a wall bed, the combination with a wall having an opening therein, of a carrying frame of greater width than said opening, brackets bolted to the side rails of said frame, arms journaled at one side of the opening provided on their ends with seats adapted to receive the top and bottom rails of said carrying frame, said seats being provided with slots extending longitudinally thereof, and bolts passing through said top and bottom rails and slots, whereby the carrying frame may be adjusted transversely with relation to said arms.

In testimony whereof, I have hereunto set my hand at San Francisco, California, this 6th day of October 1913.

WILLIAM L. MURPHY.

In presence of—

H. G. PROST,
M. LE CONTE.