O. B. BURNS.

CONCEALABLE BED.

APPLICATION FILED APR. 15, 1913.

1,086,022. Patented Feb. 3, 1914.

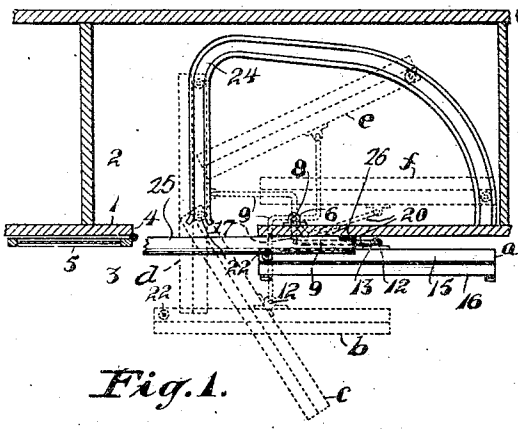


Fig. 1.

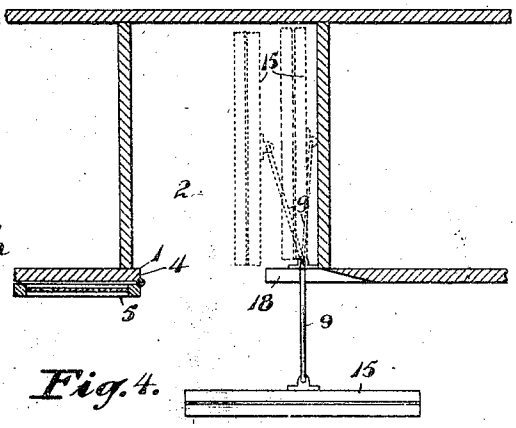


Fig. 4.

Fig. 2.

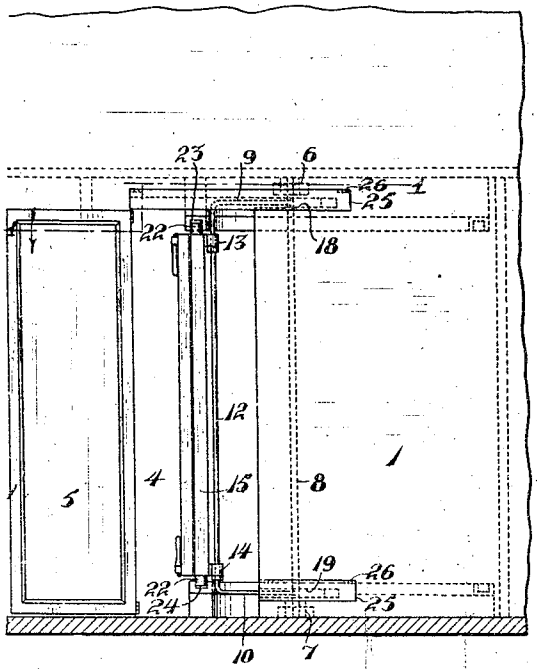
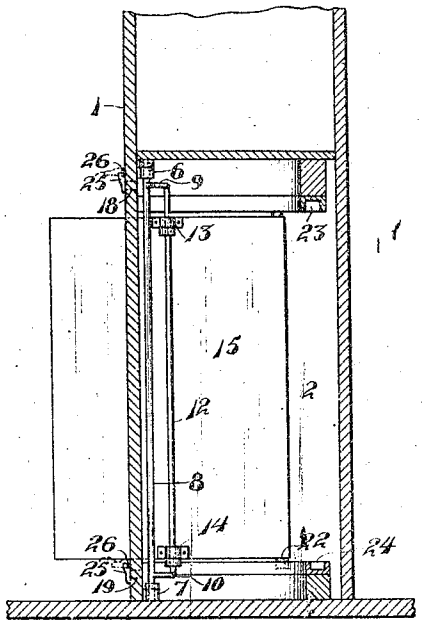


Fig. 3.



WITNESSES

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CONCEALABLE BED.

1,086,022. Specification of Letters Patent. Patented Feb. 3, 1914.

Application filed April 15, 1913. Serial No. 761,275.

To all whom it may concern:

Be it known that I, ORMIAN B. BURNS, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented new and useful Improvements in Concealable Beds, of which the following is a specification.

The object of the present invention is to provide a simple construction of concealable bed, which, when not in use, can be passed into a closet through the door of said closet, and can be extended from said closet into a room for use, the door of the closet then being closed. In such concealable beds, the bed is swung upward about a low horizontal axis into a vertical position in which it rests against a frame, and the frame and bed in this vertical position are then moved from the room into the closet.

Inasmuch as my invention is only concerned with the mechanism for so transferring the bed and frame from the room into the closet, or from extending the same from the closet into the room, the mechanism connected with the raising of the bed to a vertical position, and other details of construction which form no part of my invention, are not here shown in detail, the bed itself being only indicated diagrammatically.

In the accompanying drawing, Figure 1 is a horizontal section of the walls of a closet and of the room, on the line 1—1 of Fig. 2, showing in plan view the bed frame movable in and out of said closet; Fig. 2 is a broken front view of the same; Fig. 3 is a vertical transverse section of the same; Fig. 4 is a view, similar to Fig. 1, of a modification of the invention used with a closet of different form.

Referring to the drawing, 1 indicates a dividing wall between a closet 2 and a room 3, said wall having therein an opening 4 closed by the door 5. In upper and lower bearings 6, 7, secured to the rear side of said wall 1, is a vertical shaft 8 from which extend upper and lower horizontal arms 9, 10, said arms being bent at right angles at a short distance from the shaft 8. The outer ends of said arms are connected to a vertical shaft 12, which passes through upper and lower bearings 13, 14, connected to the top and bottom of the middle portions of the rear side of a bed frame 15, the bed itself, indicated diagrammatically at 16, being secured to said frame in any desired manner. When said bed frame is in its fully extended position, as shown at *a*, the short portions 17 of said arms 9, 10 pass through upper and lower slots 18, 19 formed in the dividing wall 1, and the longer portions 20 of said arms extend in front of, and parallel with, and closely adjacent to said wall. The bed frame 15 also extends in front of, and parallel with, and closely adjacent to said longer portions of the arms. To place the bed in the closet, it is first moved into the position indicated in the dotted lines at *b*, in which the arms 9, 10, are turned through substantially a right angle, the bed frame remaining parallel to its former position. The bed frame is then swung on the vertical shaft 12 to the position shown in dotted lines at *c*. In this position rollers 22, carried at the top and bottom of the bed frame respectively, enter the open ends of upper and lower channels 23, 24, which guide the bed in its movement. As the arms 9, 10 further turn on the axis of the vertical shaft 8, the rollers 22 travel in a direction directly backward from the opening in the wall 1, until the bed frame assumes the position shown in dotted lines at *d*. The rollers travel with the bed around curved portions of the channels 23, 24 to the position shown in dotted lines at *e*, and then finally to the position shown in dotted lines at *f*.

It will be observed that by the above contrivance the bed frame is always maintained at a considerable distance from the opposite edge of the door opening, so that a bed of considerable width and thickness can by this means be passed through a comparatively narrow opening. When the bed is withdrawn the slots 18, 19, are concealed by shutters 25, hinged as shown at 26, at their upper edges, which shutters are automatically raised, as shown in dotted lines in Fig. 3, by the arms in moving outward through the slots. It is obvious that the door can be closed when the bed is in the extended position or when the bed is withdrawn into the closet, and it is also seen that in this latter position ample room is afforded to enter the closet through the door. It is also obvious that, if desired, the bed can be lowered for use in the position shown at *b* as well as in the position shown at *a*.

Fig. 4 shows a modification of the construction for use with a closet of much smaller length and somewhat greater width.

In this position longer arms 9, 10 are necessary.

I claim:—

1. In combination with the wall of a room having an opening therethrough, a bed frame, an arm pivoted thereto on a vertical axis between the sides of said bed frame, said arm being also pivoted on a vertical axis at the rear of said wall, said wall having an open-ended slot entirely therethrough to permit said arm to extend therethrough in the extended position of the bed.

2. In combination with the wall of a room having an opening therethrough, a bed frame, a bent arm pivoted thereto on a vertical axis between the sides of said bed frame, said arm being also pivoted on a vertical axis at the rear of said wall, said wall having an open-ended slot to permit said arm to extend therethrough in the extended position of the bed.

3. In combination with the wall of a room having an opening therethrough, a bed frame, an arm bent in a horizontal plane and pivoted thereto on a vertical axis between the sides of said bed frame, said arm being also pivoted in a vertical axis to the rear side of said wall.

4. In combination with the wall of a room having an opening therethrough, a bed frame, a bent arm pivoted thereto on a vertical axis between the sides of said bed frame, said arm being also pivoted on a vertical axis at the rear of said wall, and a stationary guide adapted to be engaged by a portion of the bed frame to guide the bed with the movement of said arm.

5. In combination with the wall of a room having an opening therethrough, a bed frame, an arm pivoted thereto on a vertical axis between the sides of said bed frame, said arm being also pivoted on a vertical axis at the rear of said wall, said wall having an open-ended slot to permit said arm to extend therethrough in the extended position of the bed and a stationary guide adapted to be engaged by a portion of the bed frame to guide the bed with the movement of said arm.

6. In combination with the wall of a room having an opening therethrough, a bed frame, an arm pivoted thereto on a vertical axis between the sides of said bed frame, said arm being also pivoted on a vertical axis at the rear of said wall, said wall having an open-ended slot to permit said arm to extend therethrough in the extended position of the bed, a bent channel secured to the floor on one side of said wall, and a roller carried by the bed frame and engaging said channel.

7. In combination with the wall of a room having an opening therethrough, a bed frame, an arm pivoted to the bottom of the bed frame on a vertical axis between the sides of said bed frame, said arm being also pivoted on a vertical axis at the rear of said wall, said wall having an open-ended slot entirely therethrough to permit said arm to extend therethrough in the extended position of the bed, and a hinged shutter for closing said slot.

8. In combination with the wall of a room having an opening therethrough, a bed frame, an arm pivoted to the bottom of the bed frame on a vertical axis between the sides of said bed frame, said arm being also pivoted on a vertical axis at the rear of said wall, said wall having an open-ended slot entirely therethrough to permit said arm to extend therethrough in the extended position of the bed, a hinged shutter for closing said slot and arranged to be automatically raised by the outward movement of said arm.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

OREIAN B. BURNS.

Witnesses:
F. M. WRIGHT,
D. B. RICHARDS.