

(No Model.)

C. M. WAGNER.
FOLDING BED.

No. 479,861.

Patented Aug. 2, 1892.

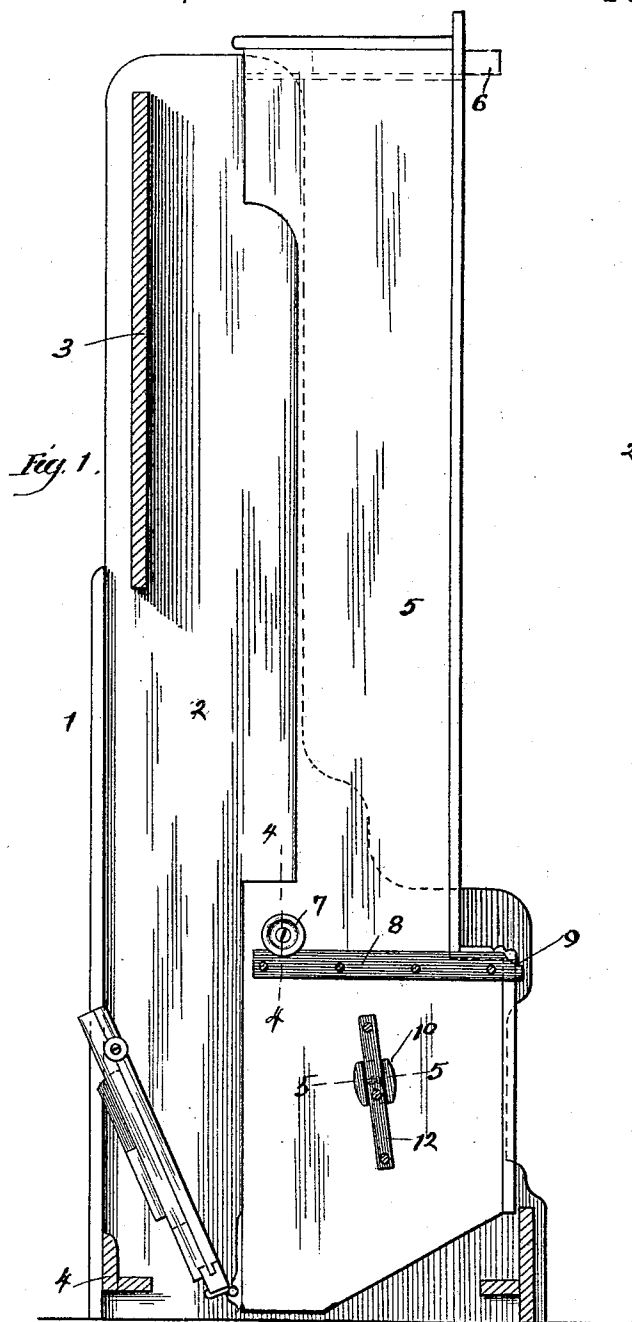


Fig. 2.

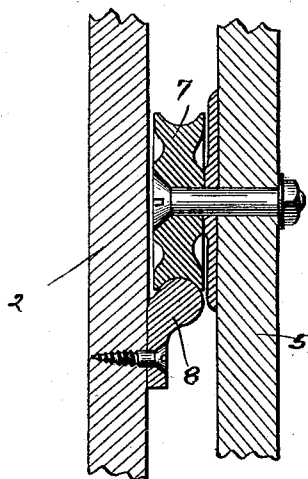
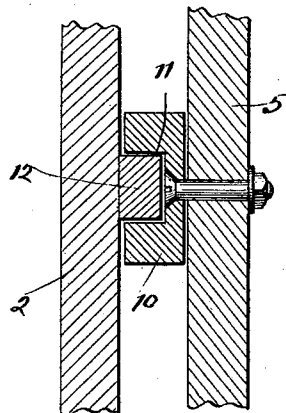


Fig. 3.



Witnesses:

John L. Jackson.
Kellie McHibben.

Inventor:

Caspar M. Wagner *Inventor:*
by Bond, Adams & Richard
Attorneys:

Attorneys:

UNITED STATES PATENT OFFICE.

CASPAR M. WAGNER, OF CHICAGO, ILLINOIS.

FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 479,861, dated August 2, 1892.

Application filed March 8, 1892. Serial No. 424,235. (No model.)

To all whom it may concern:

Be it known that I, CASPAR M. WAGNER, residing at Chicago, in the county of Cook and State of Illinois, and a citizen of the United States, have invented certain new and useful Improvements in Folding Beds, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a bed, one side of the stationary frame being removed, showing the bed closed. Fig. 2 is an enlarged detail, being a vertical cross-section of a portion of the bed on line 4 4 of Fig. 1, and Fig. 3 is an enlarged detail, being a horizontal section of a portion of the bed on line 5 5 of Fig. 1.

My invention relates to folding beds; and the objects of my invention are to provide a new and improved folding bed, in which the folding portion will be accurately balanced, so that it may be easily opened and closed, to provide new and improved guides for the folding portion of the bed, and to provide a folding frame which will be so mounted in the stationary frame as to be easily removed or replaced. I accomplish these objects as hereinafter specified, and as illustrated in the drawings.

That which I regard as new will be pointed out in the claim.

In the drawings, 1 indicates the stationary frame, which is constructed, as usual, of side pieces 2 and cross-pieces 3 and 4.

5 indicates the folding portion of the bed, which is pivoted between the side pieces 2. The folding portion 5 of the bed is adapted to be swung outward and downward until it assumes a horizontal position, as shown in Fig. 2, and when not in use to be folded up to a vertical position, as shown in Fig. 1. Suitable legs or supports 6 are provided at the end of the folding frame 5 farthest from the pivot, which legs are adapted to support the outer end of the folding frame 5 when the bed is in a horizontal position. The legs 6 may consist either of ornamental projections on the bed-frame or they may be so arranged as to be incased in the bed-frame when not in use.

Mounted upon each side of the folding frame 5 is a roller 7, which rollers are adapted to move upon horizontal strips or rails 8, secured to the side frames 2 of the stationary portion of the bed. The rails 8 are each provided with a depression or recess 9 at their outer ends, adapted to receive the rollers 7 when the bed is in a horizontal position. By this construction a lock is formed, which serves to hold the bed open, so that it cannot swing back to a vertical position by its own weight or if slight pressure should be brought to bear on the inner end of the folding portion of the frame. The recesses 9, however, are not of sufficient depth to cause much resistance to the folding of the bed when the outer end of the bed is raised. The rollers 7 are prevented from moving off of the rails 8 by the presence of the legs 6, which are so adjusted as to hold the folding frame at a proper height.

10 indicates a guide-block, one of which is swiveled on each side of the folding frame 5 at a suitable point between the head of the bed and the location of the roller 7, preferably about half-way between, as shown in Fig. 1. Each guide-block 10 is provided with a groove 11, which is adapted to receive a guide-strip 12, one of which is rigidly secured upon the inner surface of each side piece 2 of the stationary frame, as shown in Fig. 1. The guide-strips 12 are preferably inclined a little out of a vertical position, their upper ends lying nearer the back of the stationary frame, as shown in Fig. 1. The guide-blocks 10 are so arranged that when the folding frame 5 is in a vertical position they will be at about the center of the strips 12 and the rollers 7 will be at the inner ends of the rails 8, as shown in Fig. 1. When the frame 5 is moved to a horizontal position, the guide-blocks 10 will move downward and then upward on the strips 12, while the rollers 7 will move out on the rails 8 and into the recesses 9. By this construction the guide-blocks 10 serve to hold the folding frame 5 steady and render its action smooth.

When it is desired to remove the folding frame from the stationary frame, by lifting the inner end of the folding frame the blocks 10 will move off of the strips 12 and the fold-

ing frame may then be moved out of its place in the stationary frame. By this construction the folding frame may be readily removed without necessitating the taking apart of any other portion of the bed, which is a very desirable feature.

It is evident that instead of securing the strips 12 to the side pieces of the stationary frame and mounting the guide-blocks 10 upon the folding frame, the guide-blocks may be carried by the side pieces 2 and the guide-strips 12 by the folding portion 5, as the operation with such an arrangement would be the same as in the construction shown.

When the strips 12 and guide-blocks 10 are arranged, as shown, when the folding frame is turned to a horizontal position, the blocks 10 will first move down and then up on said strips, as above described, and when the folding frame is in a vertical position, the blocks 10 will remain at about the center of the strips 12. The inclination of the guide-strips serves to regulate horizontal motion of the folding frame upon the rails 8. If, however, instead of placing the guide-strips 12 at the point shown in the drawings, they should be placed at a point under the inner ends of the rails 8, the guide-blocks 10 would be at their lowermost point when the folding frame is in a vertical position and would move upward

when the frame is turned to a horizontal position. I do not wish to limit myself to locating the strips 12 at any particular point nor to inclining them, as shown, as, if only a limited horizontal motion of the folding frame were desired, the strips 12 might be placed at right angles to the rails 8, the operation in this case being in other respects substantially the same as above described.

That which I claim as my invention, and desire to secure by Letters Patent, is—

The combination, with the stationary frame 1, the folding-bed portion 5, the horizontal rails 8, secured to the stationary frame, and the rollers 7, mounted on the folding-bed portion to traverse the rails, of the guide-blocks 10, swiveled to the folding frame beneath the said rollers and each provided with a groove 11, and the guide-strips 12, rigidly secured to the stationary frame beneath the horizontal rails and movable in the grooves of the guide-blocks, said folding-bed portion being detachable from the stationary frame by raising it and lifting the guide-blocks from the guide-strips, substantially as described.

CASPAR M. WAGNER.

Witnesses:

ALBERT H. ADAMS,
JOHN L. JACKSON.