(No Model.) 2 Sheets—Sheet 1.

W. A. MORRISON.

WARDROBE BEDSTEAD.

No. 336,818. Patented Feb. 23, 1886.

Fig. 1.

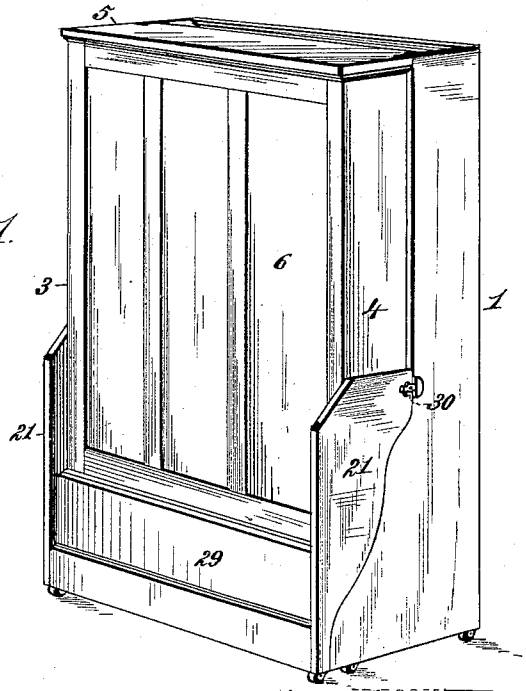
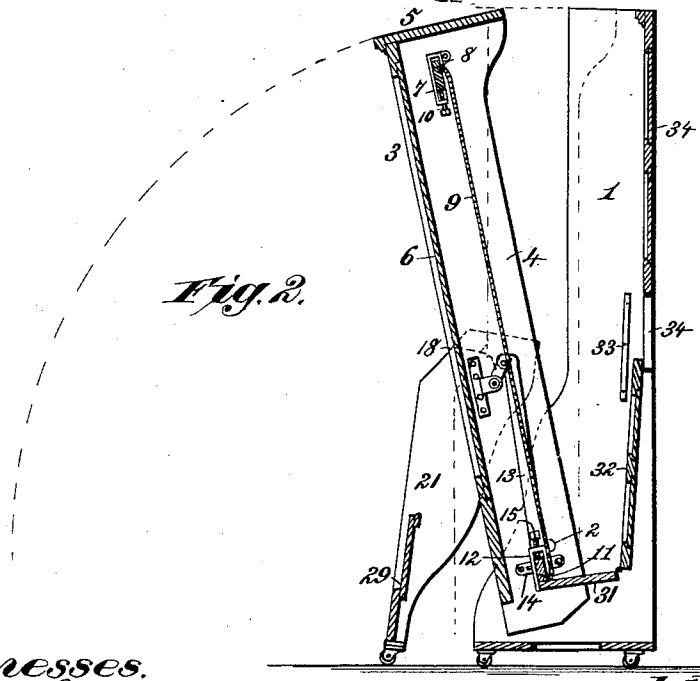


Fig. 2.



Witnesses.
Robert Everett,
Geo. W. Rea

Inventor.
Willard A. Morrison.
By James L. Norris.
Atty.

N. PETERS. Photo-Lithographer, Washington, D. C.

(No Model.) 2 Sheets—Sheet 2.

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Fig. 4.

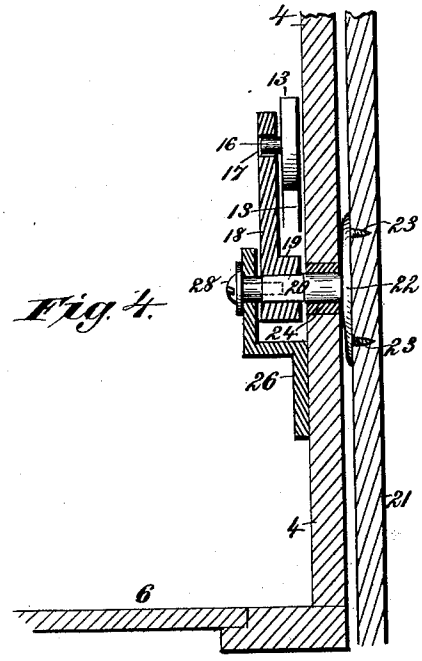


Fig. 3.

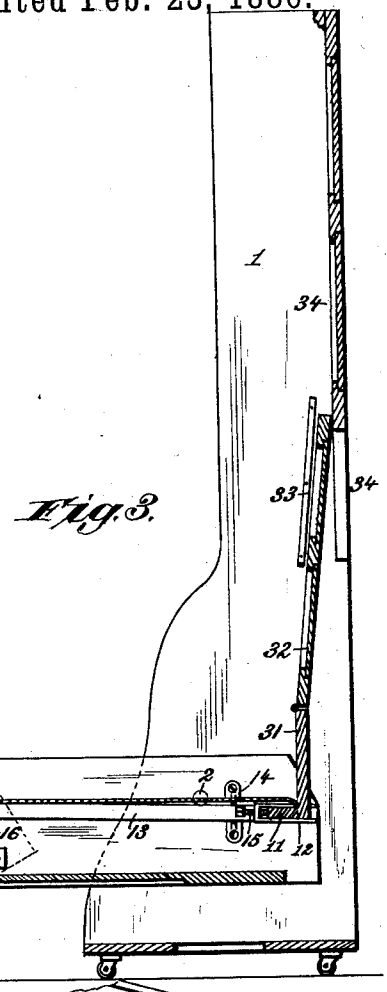
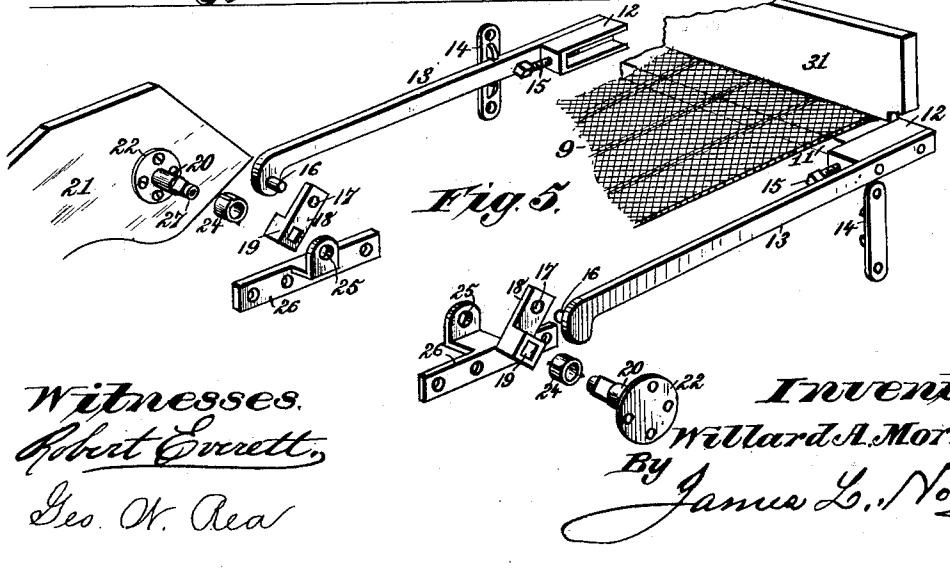


Fig. 5.



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UNITED STATES PATENT OFFICE.

WILLARD A. MORRISON, OF CHICAGO, ILLINOIS.

WARDROBE-BEDSTEAD.

SPECIFICATION forming part of Letters Patent No. 336,818, dated February 23, 1886.

Application filed December 22, 1885. Serial No. 186,466. (No model.)

To all whom it may concern:

Be it known that I, WILLARD A. MORRISON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Wardrobe-Bedsteads, of which the following is a specification.

My invention relates to that class of folding or cabinet bedsteads in which the weight of the folding-bed support is partly sustained by folding legs having a pivotal connection with said support.

The object of my invention is to provide a means of so arranging the folding legs that they will always be in contact with the floor, whether the bedstead is folded or unfolded, and also during the act of changing it from one of these positions to the other, thereby causing the said legs to sustain a part of the weight at all times, and thus afford a firm and steady support.

Another object of my invention is to so connect the folding legs with an extensible mattress that the act of unfolding the bedstead will extend said mattress, the increasing tension of which will in turn restrain a too rapid or sudden unfolding of the legs, and thereby cause the bedstead to unfold with a steady and gentle movement.

In the annexed drawings illustrating my invention, Figure 1 is a perspective view of my improved wardrobe-bedstead in its folded position. Fig. 2 is a vertical section of the same, showing the position of its parts when the bedstead is partly unfolded. Fig. 3 is a similar section, in which the bedstead is represented unfolded and lowered for use. Fig. 4 is an enlarged section through one of the folding legs and side bed-rails with connecting mechanism, showing also a section through a portion of the wardrobe-front. Fig. 5 represents in perspective a portion of an extensible mattress and support and a portion of folding leg and its connections with the mattress-support.

Referring to these drawings, the numeral 1 designates the upright or cabinet portion of a wardrobe-bedstead, which may be supported on casters and made according to any appropriate pattern, and forms a casing for the bed when folded. In the lower part of the casing 1 is pivoted at 2 a folding-bed support, 3, which is composed of the side rails, 4, foot-board 5, and false front 6, the latter being finished to represent a wardrobe or similar article of furniture.

To each side rail, 4, near the foot-board 5, is secured a metallic box or bracket, 7, for supporting a cross-bar, 8, to which is attached one end of an extensible mattress, 9, which may be composed of woven wire or other fabric. Each of these boxes or brackets 7 is provided with a screw, 10, that bears on the cross-bar 8, for the purpose of adjusting the tension of the extensible mattress. The other end of the mattress is attached to a cross-bar, 11, which is supported in boxes or brackets 12, that are secured to bars or levers 13, having a sliding movement in guides or guide-plates 14, securely attached to the inner side of each side rail. The boxes or brackets 11 are also provided with screws 15 for adjusting the tension of the mattress.

The forward or upper end of each bar or lever 13 is preferably curved, as shown in Fig. 5, and carries on its inner side a stud or pivot, 16, which enters a circular opening, 17, in a crank, 18, having a square or polygonal socket, 19, at its other end. The socket 19 fits over the square or polygonal portion of a trunnion, 20, one of which is secured to the inner side of each folding leg 21 near its upper end. The trunnions 20 may be formed on plates 22, attached to the legs by screws 23, as shown in Fig. 4; or the trunnions may be secured to the legs in any other suitable manner.

By reference to Fig. 4 it will be seen that the trunnions 20 are passed through the side rails, 4, and the cylindrical portion of each trunnion, next to its plate 22, is secured by a collar, 24, one of which is set into each side rail to prevent wear. The extremity of each trunnion 20 is also cylindrical and enters a circular opening, 25, in a bracket, 26, one of which is secured to the inner side of each side rail. It will thus be seen that the legs 21 are each pivoted to its adjacent side rail and provided, through the trunnion 20, crank 18, and sliding lever 13, with an intermediate connection to the extensible mattress. The unfolding of the legs 21 is therefore made to extend the mattress as the bed-support is being lowered to a horizontal position, while in turn the

gradually-increasing tension of the mattress serves to restrain a too rapid movement of the legs and enables the bed to be lowered gently and steadily to a proper position for use.

In the end of each trunnion 20 is a socket, 27, for receiving a screw, 28, the head of which serves as a nut to prevent disconnection of the trunnions and attached cranks.

The legs 21 are connected by a suitably-ornamented cross-piece, 29, which supports the bed when unfolded, and also serves as a base-board or panel for the wardrobe-front when the bedstead is folded. Each leg is provided with a caster that is always in contact with the floor, whether the bedstead is folded or unfolded or in the act of being changed from one of these positions to the other. The legs 21 therefore serve at all times to assist in supporting the weight of the bedstead.

When the bedstead is folded, it may be secured by a lock, latch, or fastening, 30, of any suitable kind, located at the side, as shown in Fig. 1, or at any other convenient point.

If desired, the cross bar 11 may be provided with a flange, 31, having a hinged connection with a vertically-sliding panel, 32, that forms a portion of the head-board. This panel 32 moves vertically between the guides 33 in front and the fixed head-board 34 at the back. In the act of folding the bedstead the panel 32 descends and leaves a space through which the bedding will be ventilated.

It will be observed that while the bedstead is being folded, thereby carrying the legs 21 backward, the trunnions 20, fixed to said legs, are caused to turn in the collars 24, so as to actuate the cranks 18 and draw the bars or levers 13 forward and upward in their guides 14, thus relaxing the extensible mattress. On unfolding the bedstead the outward movement of the legs, and consequent rotation of the trunnions, turns the cranks 18 backward and moves the bars or levers 13 toward the head-board, together with the cross-bar 11, thereby extending the mattress. The gradual increase in the tension of the mattress during the act of unfolding the bedstead serves to hold the legs 21 in contact with the floor, and affords a firm support for the bed.

Heretofore a folding bed has been composed of a stationary case, a hinged bed-support, and legs pivoted to the side rails of the bed-support, and each connected with a spiral or convolute spring. Such, therefore, I do not broadly claim; but

What I claim as my invention is—

1. The combination of the upright casing, the folding-bed support, and an extensible mattress carried by said support with folding legs traveling on the floor at one end and journaled at the other end to the side rails of the folding support, and crank-connections between the journals of the legs and the end of the extensible mattress, for extending the latter when the legs and bed-support are unfolded, substantially as described.

2. The combination of the upright casing, the folding-bed support, and an extensible mattress carried by said support with folding legs connected at one end by a cross-bar, and such ends traveling on the floor, and journaled at the other ends to the side rails of the bed-support, and yielding connections between the journals of the legs and one end of the extensible mattress, for extending the latter when the legs and bed-support are unfolded, substantially as described.

3. In a wardrobe-bedstead, the combination of an upright cabinet, a folding-bed-support, an extensible mattress, folding legs provided with fixed trunnions, journaled in the side rails and carrying cranks, and sliding levers for connecting the cranks and extensible mattress, substantially as described.

4. In a wardrobe-bedstead, the combination of an upright cabinet, a folding-bed support having folding legs provided with fixed trunnions journaled in the side rails of said support, an extensible mattress, and levers for connecting the said trunnions and mattress, substantially as described.

5. In a wardrobe-bedstead, the combination of an upright cabinet, a folding-bed support having side rails provided with guides, an extensible mattress, folding legs having fixed trunnions journaled in the side rails and provided with cranks, and levers sliding in the guides on the side rails, and connected with the trunnion-cranks at one end and with the extensible mattress at the other end, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLARD A. MORRISON.

Witnesses:

HARVEY WADDELL,

JAMES NEWCOM.