

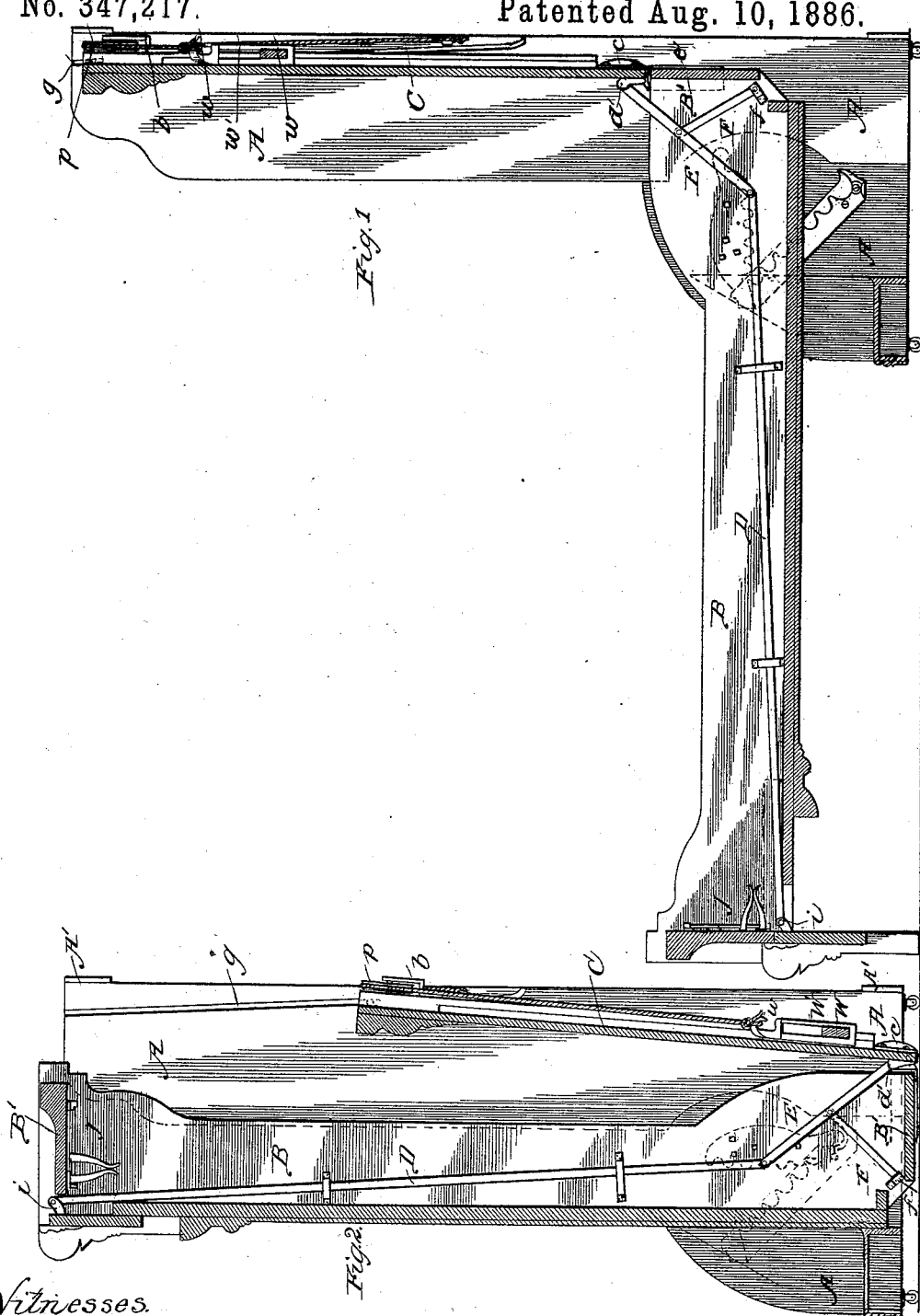
(No Model.)

2 Sheets—Sheet 1.

F. B. WILLIAMS.
WARDROBE BEDSTEAD.

No. 347,217.

Patented Aug. 10, 1886.



Witnesses.

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J. M. Whipple

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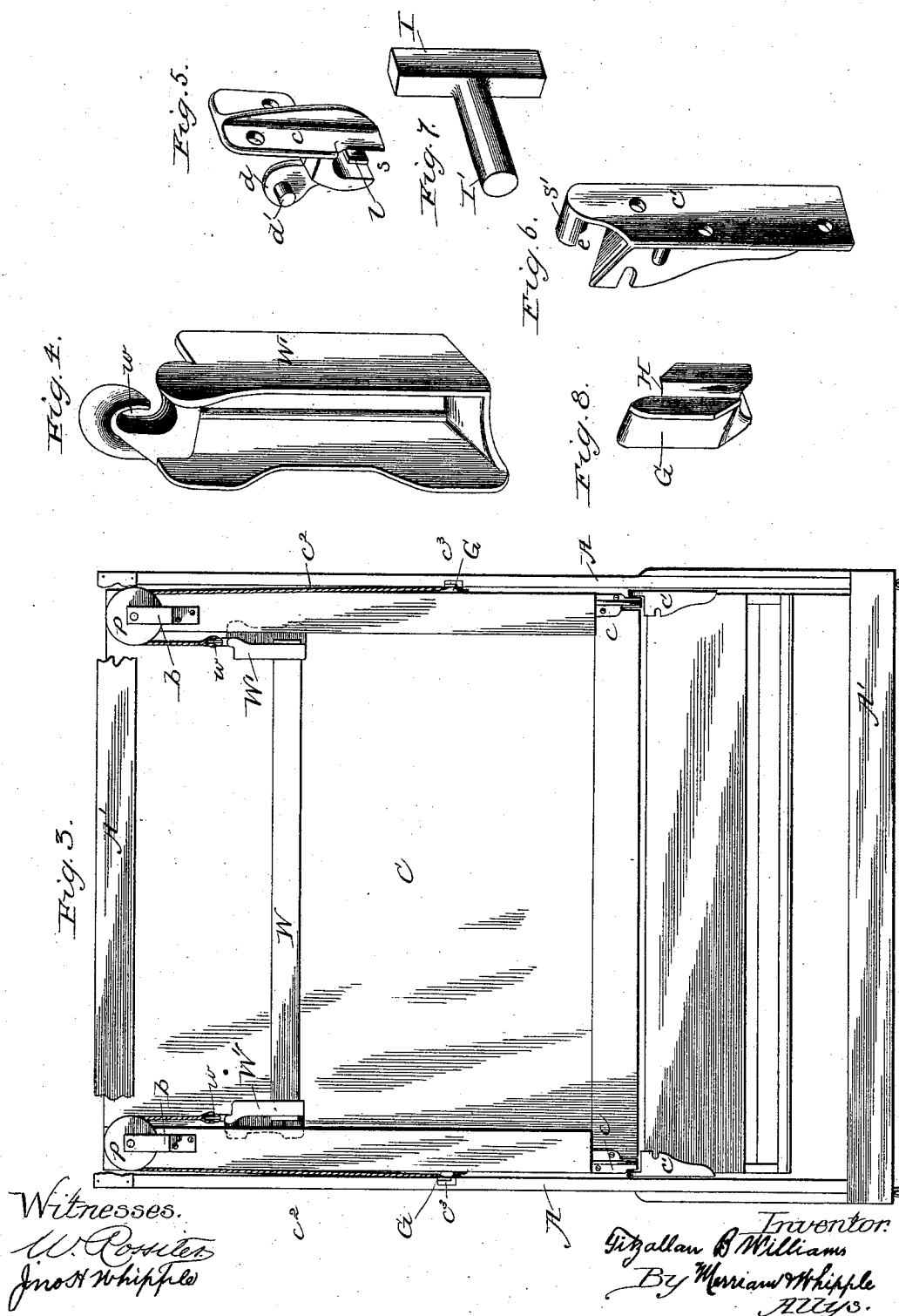
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Patented Aug. 10, 1886.



UNITED STATES PATENT OFFICE.

FITZALLAN B. WILLIAMS, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-
FOURTH TO WALDO A. WILLIAMS, OF SAME PLACE.

WARDROBE-BEDSTEAD.

SPECIFICATION forming part of Letters Patent No. 347,217, dated August 10, 1886.

Application filed August 10, 1885. Serial No. 173,933. (No model.)

To all whom it may concern:

Be it known that I, FITZALLAN B. WILLIAMS, of Chicago, Illinois, have invented certain new and useful Improvements in Wardrobe-Bedsteads, of which the following is a specification.

The invention relates to that class of folding wardrobe-bedsteads in which a counter-balance is used to counteract or overcome the weight of the foot end of the folding frame while under the operation of opening or closing the bed, and the object is to reduce the amount of weight required, and to better the arrangement for folding the legs at the foot; and the invention consists in the construction and arrangement hereinafter described and claimed.

The accompanying drawings illustrate the invention.

Figure 1 is a vertical longitudinal section of an open bedstead of the class named containing the invention. Fig. 2 shows a like view of the same closed. Fig. 3 is a rear elevation of the head end. Figs. 4, 5, 6, 7, and 8 are perspective views of detached parts.

The upright or stationary frame is composed of two sides, A, held to cross-pieces A' at the top and bottom. The folding or movable frame is composed of side pieces, B, connected by cross-rails B' at the head and foot. The folding frame rests and works on cleats attached to the base of the upright in the manner shown in my former patents. The head-board C is hinged to the cross-rail B' at the head end of the bed. For this purpose I have constructed a special form of hinge, c c'. (Shown enlarged in Figs. 5 and 6.) The part c is adapted to be fastened by screws to the lower corners of the head-board. It has a slot or socket, s, having a lug or projection, l, made to contract the lower part of the slot at one side thereof. The slot is made to rest on the top pin, s', of the part c', and support the head-board thereon at the opposite corners of the folding frame. The pin s' is flattened for about half its length on one side, as seen at e, to make it pass the contracted portion of the slot at the lug l, when turned with its edge toward the slot, and the arrangement of the pin with the slot is such that the edge at the flattened part will be presented toward the slot, and

will pass the contracted part thereof when the bed is in the folded position seen in Fig. 2; but in all other positions the pin will be turned, so as to present a width of pin too large to pass out through such contracted part of the slot. The bracket d and pin d' are for a purpose hereinafter explained. At the top the head-board is provided with a bracket, b, at each corner, for supporting a grooved pulley, p, over which a cord, c², passes. The cords are attached to the sides of the frame A at c²; and to the free ends, suspended from the pulleys, the weight W is attached. It is of course apparent that the weight can be suspended on a single cord and pulley, or that more than two cords and pulleys can be arranged by persons employing mechanical skill merely to support and operate the weight by the movement of the head-board in substantially the way I have shown. I therefore do not wish to be understood as intending to limit my patent to the one particular arrangement of cords and pulleys described and illustrated.

For the convenient supporting of the weight-bars, and to provide for holding one or more of them, I use weight-holders, (shown enlarged in Fig. 4,) which are provided with a hook or eye, w, at the top, in which the cord is attached, and a slot in the side, adapted to receive the end of the weight-bars. The weight being thus suspended moves through double the distance that the head-board does in the folding and unfolding of the bed, and hence only one-half the weight which would be required to balance the folding frame without the pulleys and cord arrangement is necessary to render the operation of opening and closing the bed light and easy.

To open and close the foot-legs I employ the long rod or bar, D, and the shorter bars, E and F, the bar D being connected to a lug or projection, i, extending from the foot-legs, which are hinged to the foot-boards in the usual way and joined to the bar E, which latter bar is connected to the pin d' on the upper part, e, of the hinge connecting the folding frame and head-board, and the bar F being pivotally connected to bar E, about its middle, and also pivotally connected to the side frame at f, acts as a link or brace in connec-

tion with the movement of the head-board and folding frame to move the bar D back and forth, to open and close the foot-legs as required.

5 As a means of readily securing the cords to the sides of the upright frame I use a metal holder, G, (shown enlarged in Fig. 8,) which is adapted to be fastened to the back of the upright frame by being set into a mortise or opening therein, and is provided with a slot, H, to admit the cord into the inner opening, which is widest at the bottom and contracted at the top, so as to admit a knot on the end of the cord at the bottom, but not allow it to pass through the top.

10 Instead of being made square and set into a mortise, the part to be set in may be made round, and set into a round hole; also, as a means of convenient and ready attachment of the upper end of the head-board in the grooves *g* in the upright frames, I provide a T-shaped piece, preferably made of metal. (Shown enlarged in Fig. 7.) The top or head of this piece is rectangular in cross-section, or conforms in shape to the shape of the groove, and the body *I'* is round. A hole is bored in the edge of the head-board, of the proper size to receive the body *I'* loosely, and the head *I* slides in the groove *g* of the frame. The bar E attaches to the pin *d'* of the hinge by means of a hole in the end of the bar into which the pin enters, and when the bed is unfolded, as seen in Fig. 1, the bar projects above the side rail, B, sufficient to allow it to be sprung on and off the pin. To take the head-board out, these bars are sprung off the pins *d'*. The bed is then closed and the weights taken out, and then the head-board may be raised, the hinges which connect the head-board with the folding frame being then in position to be disconnected from each other, as before explained. When the head-board

and folding frame are thus disconnected, the upright and the folding frame may be readily disconnected from each other when desired.

45 The attachment for holding up the mattress and bed-clothes is incidentally shown at J in the drawings, but is made the subject of a separate patent and not particularly described or made part of this patent.

50 What is claimed here is—

1. The folding frame supported on fulcrums near its head end in the base of the upright or stationary frame, and having a sliding head-board hinged to and resting on its head end, in combination with a weight suspended on a cord or cords fastened to the stationary frame, thence passing to and over a pulley or pulleys on the sliding head-board, and thence to the weight, substantially as and for the purpose specified.

2. The weight-holder *W'*, having hook or eye *w*, being slotted at the side to adapt it to receive the end of the weight-bars, the other side having a guide flange adapted to run in a guide-groove, substantially as and for the purpose specified.

3. The hinge composed of the part *c*, having a slot, *s*, bracket *d*, and pin *d'*, in combination with the part *c'* and pin *s'*, said parts being adapted to be attached, respectively, to the corners of the head-board and folding frame, as and for the purpose specified.

4. The hinge composed of the part *c*, having a slot, *s*, contracted at the bottom by a lug or projection, *l*, and a bracket, *d*, and pin *d'*, in combination with the part *c'*, provided with pin *s'*, flattened part way, as at *e*, the parts being adapted to be attached, respectively, to the head-board and folding frame, as specified.

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Witnesses:

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