No. 835,817. PATENTED NOV. 13, 1906.

J. A. DEWEY.

FOLDING BED.

APPLICATION FILED SEPT. 21, 1905.

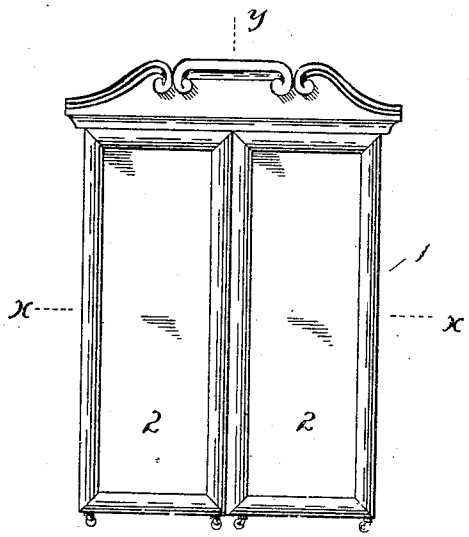

Fig. 1

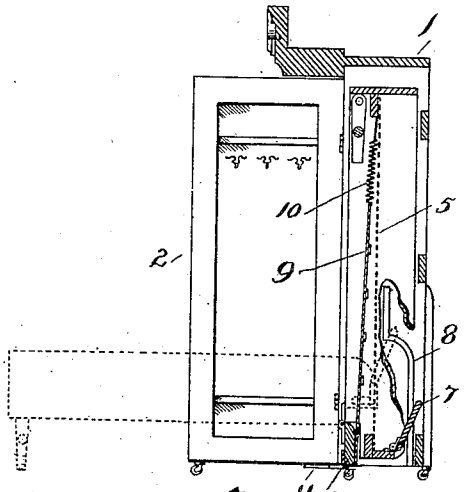

Fig. 2

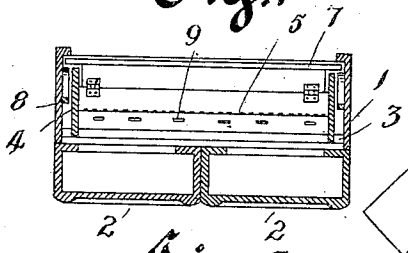

Fig. 3

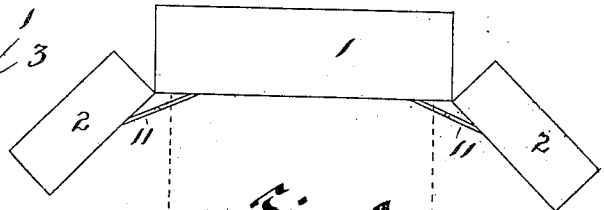

Fig. 4

Fig. 6

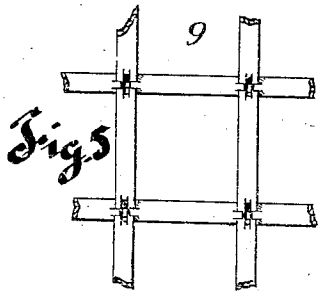

Fig. 5

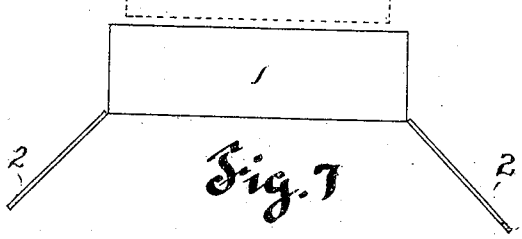

Fig. 7

WITNESSES:

Orpha le Poor.

Elz. Kincaid.

INVENTOR

Josiah A. Dewey

BY

Kincaid & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

JOSIAH A. DEWEY, OF SAN FRANCISCO, CALIFORNIA.

FOLDING BED.

No. 835,817. Specification of Letters Patent. Patented Nov. 13, 1906.

Application filed September 21, 1905. Serial No. 279,501.

To all whom it may concern:

Be it known that I, JOSIAH A. DEWEY, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Folding Beds; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My present invention relates to certain improvements in folding beds; and it has for its objects to produce a device of this character which will possess the requisites of strength and durability and which will be especially simple in construction and efficient in operation.

A further object of my invention is to make it possible to provide a bed which when open will possess all the conveniences and safety of an ordinary stationary bed, while when closed it will be compactly hidden from view and present the appearance of a neat piece of furniture.

In carrying out my invention I have aimed to utilize space, and to that end I have arranged the folding doors of the device in the nature of a wardrobe provided with suitable shelves and hooks for the accommodation of wearing-apparel. These doors, in addition to fulfilling the object just set forth, act as a brace when open to prevent the tilting forward of the outer housing of the device.

In the arrangement of the mattress of the bed I have provided novel means, which is yielding and at the same time strong enough to resist unusual weight.

Other objects and advantages of the invention will appear in the following specification, and the novel features thereof will be particularly set forth in the appended claims.

I am enabled to accomplish the objects of my invention by the means illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of the complete device, the bed being folded in and the doors closed. Fig. 2 is a vertical central section of the device taken on the line Y of Fig. 1. Fig. 3 is a transverse section taken on the line X X in Fig. 1. Fig. 4 is a similar view showing the doors thrown open. Fig. 5 is a detailed view of the lower spring-mattress. Fig. 6 is a view of a modification in the matter of uniting the cross-strips of the lower mattress. Fig. 7 is a top view of the device, showing ordinary doors substituted for the wardrobe-doors shown in Fig. 4.

Referring now to the above views by numerals, 1 indicates a rectangular wooden frame mounted on suitable casters and provided with the swinging hinged doors 2. Within this frame 1 and hinged to the lower cross-rail 3 is the bed-frame 4, which is adapted to swing outward into the position shown in dotted lines in Fig. 2, where it is supported by means of the end legs, which are pivoted to the frame 4 and are adapted to close against the frame, as shown in Fig. 2. Extending from end to end of the bed-frame 4 is the usual wire mattress 5, the position of which I have indicated by means of the heavy dotted lines in Fig. 2.

The headboard 7 is hinged to the frame 4 and as the bed is let down is guided by the strip 8 into the inclined position shown in dotted lines in Fig. 2.

Passing about and secured to the lower cross-rail 3 is the lower mattress 9, which is made up of a series of crossed strips of hoop-iron. The opposite extremities of the lower mattress are connected to the foot-rail of the bed through the interposition of the coiled springs 10. It will be readily seen that as the bed is let down the strips forming the lower mattress will bend over the lower rail 3 and exert a tension on the springs. This tension will aid in raising the bed into a folded position. It will be noted that the lower and top mattresses are not parallel to each other, but gradually diverge toward the head of the bed. This feature makes the top mattress near the head of the bed more yielding, as a greater play is possible before the weight of the occupant brings into play the lower mattress.

In Figs. 5 and 6 I have shown two methods of uniting the points of crossing of the strips forming the lower mattress; but I am aware that they can be secured together by other means, such as riveting. As shown in said figures, each of the strips 9 of the upper and lower series is slotted at the points where the strips cross each other to form bendable tongues, which tongues are so disposed that those of the strips of one series bend downwardly over the side edges of the strips of the other series and the tongues of said other series bend upwardly over the side edges of the strips of the first-named series, thereby uniting the strips without other fastening means.

Now in order to prevent the frame 1 from tilting forward as the bed is let down I have brought into play the doors 2. These doors are provided with hinged stop-arms 11, which hold the doors at an angle of forty-five degrees with the side rails of the bed. In this position it is evident that the frame is held in a secure vertical position without the least danger of tilting forward. These doors 2 are preferably box-shaped, open at the back and provided with interior shelves and hooks for the accommodation of wearing-apparel. I am aware that ordinary flat doors, such as shown in Fig. 7, may be employed and at the same time the bracing feature above set forth fulfilled.

The construction and arrangement of the several parts of my invention being thus made known, the operation and the advantages of the same will, it is thought, be readily understood.

What I claim, and desire to secure by Letters Patent, is—

1. The combination of a stationary frame, doors hinged to the sides of said frame and turnable in opposite directions, a mattress-frame hinged to the main frame and provided with a wire mattress, a secondary mattress having one end secured to the stationary frame and the other end secured to the mattress-frame whereby the mattress is placed under tension when the mattress-frame is lowered, and means for limiting the outward movement of the doors, said doors adapted to form an extended base-support to prevent the overbalancing of the stationary frame.

2. The combination of an open-front stationary frame, a bed-frame adapted to be inclosed therein, and to swing in a vertical plane, swinging doors forming a closure for the open front of the stationary frame, links for limiting the outward movement of the doors, said doors adapted to form an extended base-support for the stationary frame, and a mattress-frame turnably mounted relative to the stationary frame and provided with a mattress, a secondary mattress having one end secured to the stationary frame and the other end secured to the mattress-frame.

3. The combination with a stationary frame, of a mattress-frame hinged thereto and provided with a wire mattress, a secondary mattress having one end secured to the stationary frame and the other end secured to the mattress-frame, said secondary mattress being composed of a series of strips crossing each other and secured together at the points of crossing.

4. In combination with a suitable frame, a bed-frame hinged to said frame, a wire mattress having both extremities secured to said bed-frame, a secondary mattress one end of which is secured to said bed-frame while its opposite end is secured to said frame, said mattresses being relatively non-parallel.

5. The combination with a stationary frame and a mattress-frame adapted to be inclosed therein and to swing relative thereto in a vertical plane, said mattress-frame being provided with a wire mattress, of a secondary mattress having one end secured to the stationary frame and the other end secured to the mattress-frame, said secondary mattress being composed of a series of strips crossing each other, each of said strips being slotted at the points of crossing to form bendable tongues and said tongues being so arranged that those of one strip will engage the edges of the adjacent strip.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSIAH A. DEWEY.

Witnesses:

GEORGE PATTISON,

ORPHA C. POOR.