



**No. 673,536.**

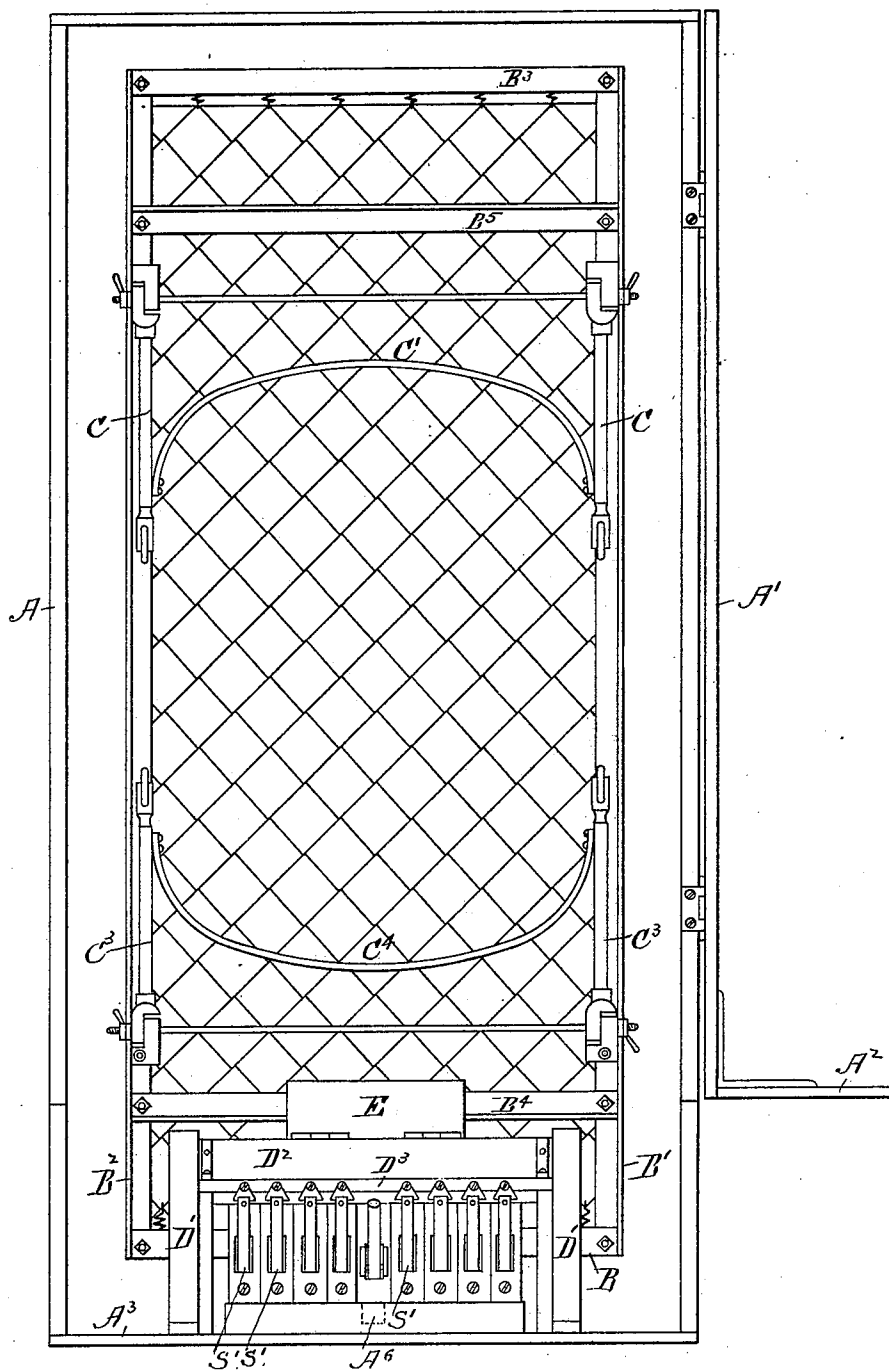
Patented May 7, 1901.

**C. M. HAMILTON.**  
**AUTOMATIC CABINET BED.**

(Application filed Aug. 15, 1900.)

(No Model.)

**3 Sheets—Sheet 2.**



WITNESSES:

Louis A. Jones  
H. Brown

Fig. 2

INVENTOR:

Clayton M. Hamilton  
by Frank G. Parker atty.



# UNITED STATES PATENT OFFICE.

CLAYTON M. HAMILTON, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO HENRY HUNT, OF SAME PLACE.

## AUTOMATIC CABINET-BED.

SPECIFICATION forming part of Letters Patent No. 673,536, dated May 7, 1901.

Application filed August 15, 1900. Serial No. 26,960. (No model.)

*To all whom it may concern:*

Be it known that I, CLAYTON M. HAMILTON, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Automatic Cabinet-Beds, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to that class of beds that are adapted to be readily compacted and inclosed within an ornamental cabinet when not in use; and it consists in combining with the cabinet a semi-automatic mechanism that will assist in placing the bed in an elevated position within the cabinet.

The object of my invention is to so improve the construction and arrangement of parts that it may be easily handled and safely used. This object I attain by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is an end elevation of the cabinet, also showing in side elevation the bedstead as it appears ready for use, entirely detached from the cabinet. Fig. 2 shows in front elevation the bed as it appears when turned up within the cabinet, the cabinet being represented as open. Fig. 3 is a vertical section showing a part of the cabinet and a part of the bed in a vertical position within it, also the semi-automatic mechanism in its vertical position. Fig. 4 is a vertical section showing a part of the bedstead and cabinet and also the semi-automatic mechanism. Fig. 5 is a plan view of the semi-automatic mechanism.

The outside of the cabinet is indicated in Fig. 1 by A and its door or doors by A'. This cabinet may be made in any desired style. Instead of doors curtains may be used for the front of the cabinet, and the part A<sup>2</sup> may be used as a seat and properly upholstered. The bedstead is also shown in Fig. 1. It will be observed that this bedstead is entirely detached from the cabinet and is complete in itself and may be moved from the cabinet to another part of the room, or even to another room.

The bedstead consists of two side bars B' B<sup>2</sup>, (see Fig. 2, which shows the under side,) two end cross-bars B and B<sup>3</sup>, and intermediate cross-bars B<sup>4</sup> B<sup>5</sup>. Folding legs C<sup>3</sup> C<sup>3</sup> and C C

are attached to the frame of the bedstead and are braced by the bent bars C' C<sup>4</sup>. Head and foot pieces of any design may be attached to the frame of the bedstead.

I will now describe the semi-automatic mechanism by which the user is assisted in turning up the bedstead in the cabinet and which holds it up in its place.

Two standards D D' and D D' are firmly attached to the floor A<sup>3</sup> of the cabinet and have rigidly attached to their upper ends a cross-bar D<sup>2</sup> and the cross-plate D<sup>3</sup>, which is firmly connected to the cross-bar D<sup>2</sup>. A tilting platform E is hinged at E' to the cross-bar D<sup>2</sup> or otherwise pivotally attached to the fixed parts. This tilting platform E has attached to it a casing E<sup>2</sup> E<sup>2</sup>, in which are secured a series of coiled springs S S, the ends of which are connected by straps S' S' and clasps S<sup>2</sup> S<sup>2</sup> to the fixed cross-plate D<sup>3</sup>, Figs. 3 and 4. The springs S S and their connections are so arranged that the tendency of strain will be to tilt or draw down the platform E in the direction indicated by the arrow e—that is, to force the platform E into the upright position shown in Fig. 3. Instead of springs weights may be used. To hold the platform E in its horizontal position, (shown in Fig. 4,) a leg L L' is used. This leg is pivoted at L<sup>2</sup>, and when the platform E is held by other means in its horizontal position the said leg will drop, so as to engage with the stop A<sup>5</sup>, and thus hold the platform, as shown in Fig. 4. The upper side of the tilting platform E is provided with engaging loops N' N and N' N and plates M M, (see Figs. 3, 4, and 5,) the use of which will be explained.

To place the bedstead in the cabinet, the door A' is opened, (see Fig. 4,) the bedstead is pushed in, so as to bring the bar B under the loops N' until it comes in contact with the cross-piece N<sup>3</sup>, and the bar B<sup>4</sup> will rest upon the plates M M. As the bar B moves in it hits the upper part L' of the leg L' L and throws its lower end off from its bearing A<sup>5</sup>, thus leaving the tilting platform E free to be drawn by the action of the springs S S into the upright position shown in Fig. 3. Now the action of the springs S S will be to tilt the platform E and through this action cause the bedstead to assume an upright position in

the cabinet, as shown in Figs. 2 and 3. The folding of the legs of the bedstead completes the operation, and the cabinet may be closed.

The block A<sup>4</sup> is rigidly attached to the floor and serves as a stop or check for the tilting mechanism. A slot A<sup>6</sup> (see Figs. 2 and 5) is made in the block A to admit of the movement of the leg L. To take the bedstead out of the cabinet, it is turned down to the horizontal position, which act will wind up or energize the springs S S and allow the leg L to take the position shown in Fig. 4. Now the bedstead may be withdrawn for use, while the mechanism will remain ready for action when required.

I claim—

1. In combination with a bedstead and cabinet a tilting platform connected to the cabinet and having loops adapted to engage with the bedstead whereby the tilting of the said platform will tend to turn the bedstead upward into the cabinet, substantially as and for the purpose set forth.

2. In combination with a bedstead and cabinet a series of springs attached to a tilting platform and adapted to operate it; mechanism for detachably connecting the said tilting platform to the said bedstead and the said tilting platform, substantially as and for the purpose set forth.

3. In combination with a bedstead and cabinet, a tilting platform, mechanism for actuating said platform and for detachably attaching said platform to said bedstead; and a swinging leg for holding said platform, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 13th day of August, A. D. 1900.

CLAYTON M. HAMILTON.

Witnesses:

FRANK G. PARKER,  
LOUIS A. JONES.