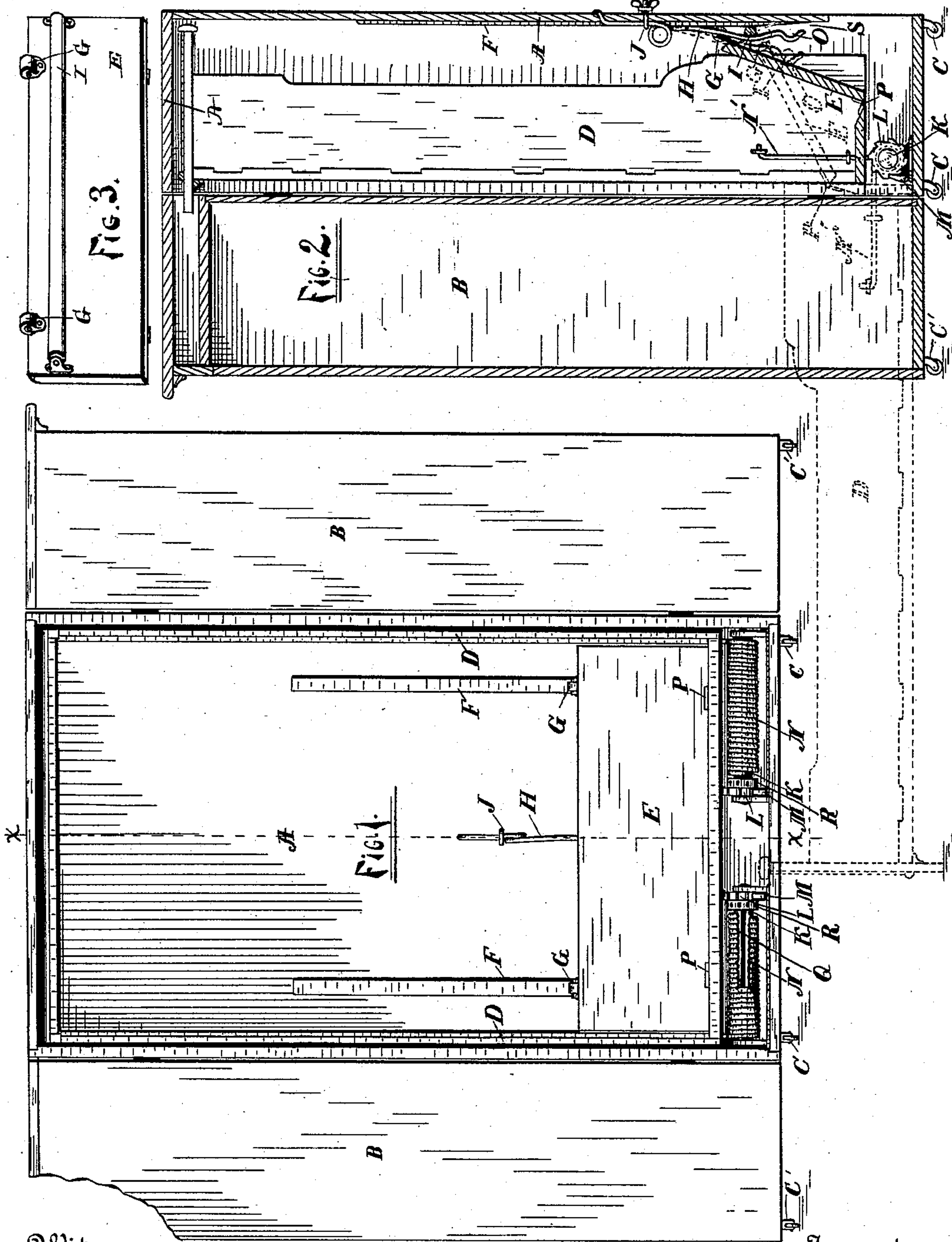


(No Model.)

T. J. APPLETON & B. F. SLITER.
WARDROBE BED.

No. 415,013.

Patented Nov. 12, 1889.



Witnesses

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UNITED STATES PATENT OFFICE.

THOMAS J. APPLETON AND BENJAMIN F. SLITER, OF GRAND RAPIDS,
MICHIGAN.

WARDROBE-BED.

SPECIFICATION forming part of Letters Patent No. 415,013, dated November 12, 1889.

Application filed March 5, 1889. Serial No. 302,024. (No model.)

To all whom it may concern:

Be it known that we, THOMAS J. APPLETON and BENJAMIN F. SLITER, citizens of the United States of America, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Wardrobe-Bedsteads; and we 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.

The accompanying drawings are made a part of this specification, to which reference is made.

This invention relates to certain new and useful improvements in wardrobe-bedsteads, and the novelty resides in the peculiar combinations and the construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then particularly pointed out in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a front view of the frame of the bed when folded, with the book-cases, &c., open. Fig. 2 is a vertical section on the line *x x* of Fig. 1, with the book-cases, &c., folded. Fig. 3 is a perspective view of the back of the hinged pillow-board, showing its rollers.

Referring to the drawings by letter, A designates the case supported upon suitable casters C.

D are the side rails of the bed-frame, and E the hinged head or pillow board.

F are tracks upon the inside of the case A, the lower ends of said tracks being tapered, as shown in Fig. 2, to assist the spring H, hereinafter described.

The pillow-board E is hinged to the fixed portion of the head-board by means of suitable hinges P.

B are the book-cases or wardrobes, hinged to the outer front edges of the sides of the case A and supported upon suitable casters C'. These wardrobes or book-cases are designed to be constructed after any suitable design, with proper hooks, shelves, drawers, mirrors,

&c. The wardrobes or book-cases are designed to act as a support to the case of the bed when the bed is lowered. When either section is swung one-quarter round, it forms a perfect and substantial support for the case of the bed, making it impossible for the case to tip forward onto the bed when lowered. Either section may be swung to any desired angle embraced within three-quarters of a circle. The bed-frame and bedding, when folded up into the case A, are partially inclosed by the same, the back of which extends from the top to within one or two feet of the base. This opening is for the purpose of giving easy access to the ratchet-shafts to adjust the tension of the springs, hereinafter described, and to allow of free access of the air to the bedding. When the wardrobes or book-cases are swung to, the bed is entirely hidden from view.

Supported in suitable brackets attached to the bottom of the case A are the ratchet-shafts K K, provided with ratchets L L, formed with collars having sockets R for compressing the springs, hereinafter described, to adjust the tension thereof to the required power. Said shafts are also provided with longitudinal slots Q, into which extend the bent ends of the springs N N.

M M are pawls engaging the ratchets to prevent retrograde movement thereof.

The springs N N are coiled one about each shaft K, with one bent end in the slot Q of said shaft, as above described, and the other end extended to form a radial or tangential arm N', which is passed through the fixed portion of the head-board and properly secured to the side rails of the bed-frame, as clearly shown in Fig. 2. These springs are made of very strong wire and are powerful, and the arms N' are sufficiently strong to support the head of the folding section. The tension of these springs is so adjusted that they serve to lift the bed and fold it into the case. The action of these springs when the bed is lowered is in a true circle in the direction of the coil thereof.

The hinged pillow-board E is provided near its ends at its outer edge with two rollers G G, adapted to travel on the tracks F F of the case, as shown in Figs. 1 and 2. A transverse

roller I, supported in suitable brackets on the rear of the pillow-board, extends across the same, as shown in Figs 2 and 3, and also travels on the said tracks.

5 H is a spring attached at its upper end to the back wall of the case A, and held thereto adjustably by a clamp-bolt J, and at its lower end bent to form the curve or hook O. This spring H rests upon the roller adjacent to the
10 pillow-board, and when the bed is lowered the roller I follows the spring H downward, and at the point where the greatest tension is exerted on the springs N N the roller comes in contact with the curve or hook O of
15 the spring H and the incline S of the lower ends of the tracks F, which assists in forcing the bed to the floor and holding it there.

We claim—

1. The combination, with the case and bed-
20 frame, of the pillow-board E, hinged to the head-rail of the bed-frame, provided with the rollers G G, perpendicular tracks F F, attached to the case, and whose lower ends are inclined at S, the roller I, the perpendicular
25 bar or rod spring H, passing over the roller

I, which is attached to the pillow-board E, adapted for equalizing the power of the springs N N and holding the bed at any given point in lowering or folding up the same, substantially as described. 30

2. The combination, with the case and bed-frame hinged thereto, of the pillow-board hinged to the head-rail of the bed-frame, a roller I, arranged centrally at the free end of the pillow-board, rollers G G at the ends of
35 the said board, the vertical tracks F F on the case and on which the rollers G G travel, the said tracks being inclined at their lower ends, and the spring H, attached to the case, bearing on the roller I and formed at its
40 lower end with a hook or curve O, substantially as shown and described.

In testimony whereof we affix our signatures in presence of two witnesses.

THOMAS J. APPLETON.
BENJAMIN F. SLITER.

Witnesses:

N. W. SMITH,
C. H. SCRIBNER.