

(No Model.)

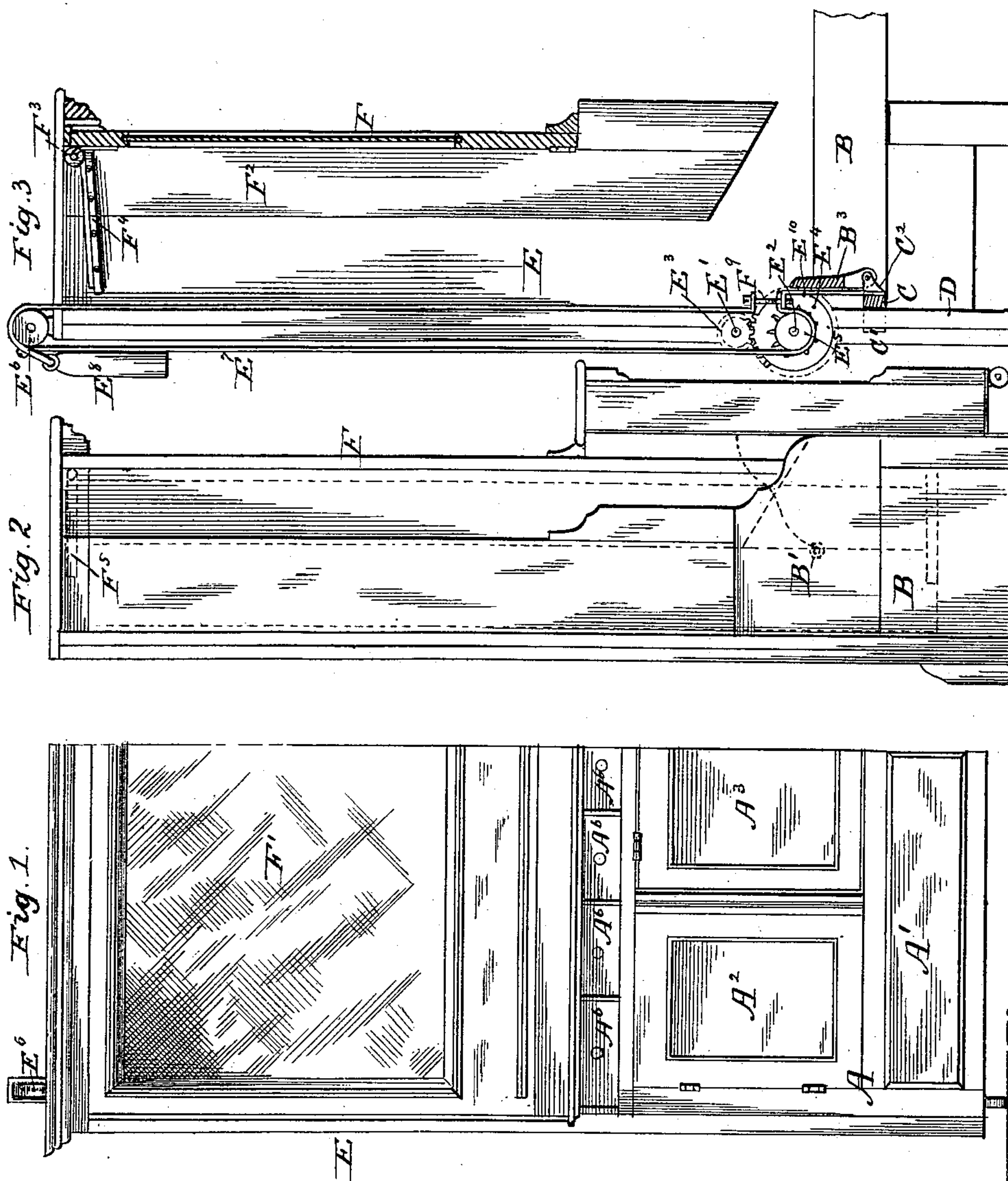
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G. H. KANMACHER.

FOLDING BEDSTEAD.

No. 332,612.

Patented Dec. 15, 1885.



Witnesses:
L. C. Hills
W. B. Masson

Inventor:
George H. Kanmacher
by E. E. Masson
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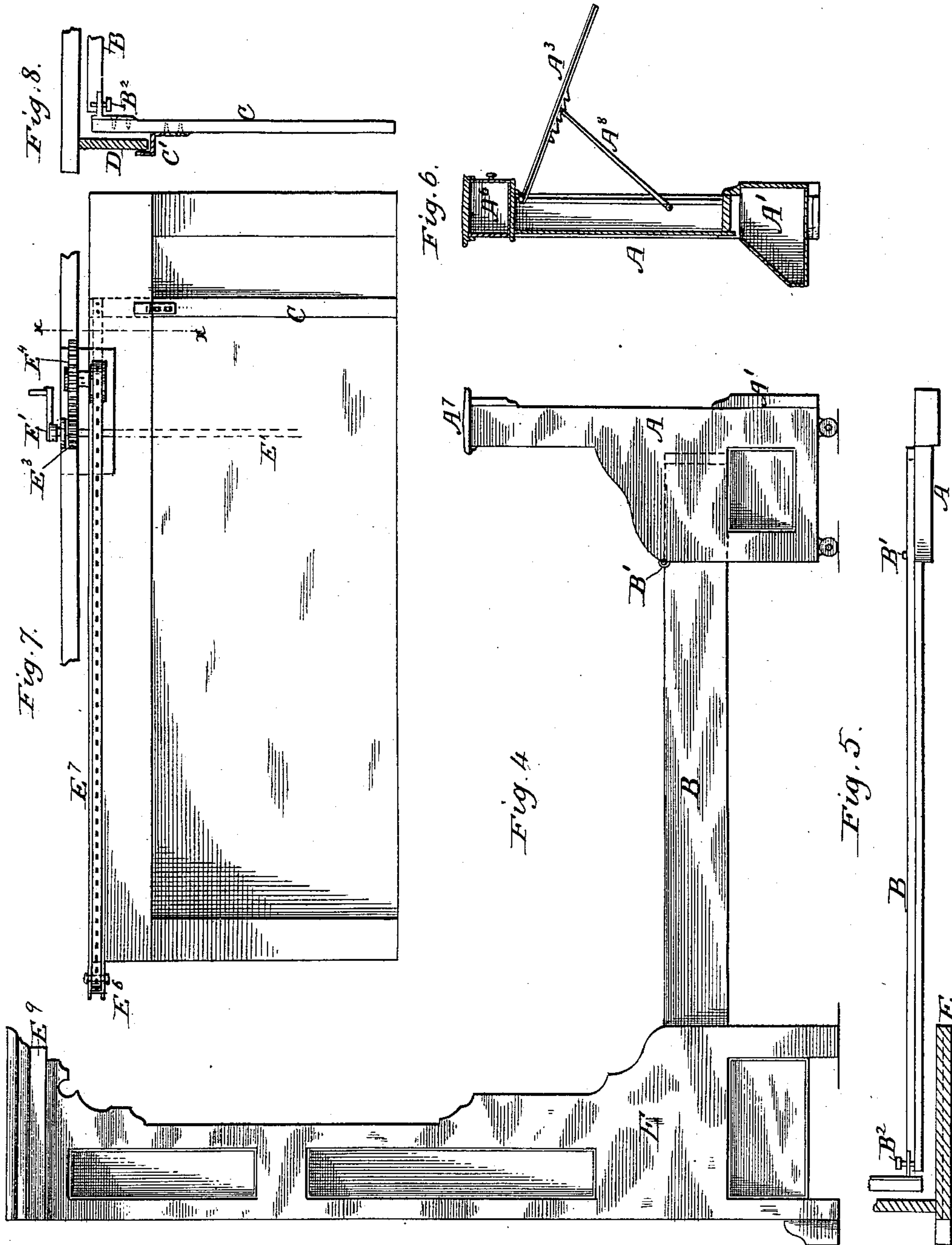
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UNITED STATES PATENT OFFICE.

GEORGE H. KANMACHER, OF COLUMBUS, OHIO, ASSIGNOR TO R. DEIMEL & BROTHERS, OF CHICAGO, ILLINOIS.

FOLDING BEDSTEAD.

SPECIFICATION forming part of Letters Patent No. 332,612, dated December 15, 1885.

Application filed May 22, 1884. Serial No. 132,439. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. KANMACHER, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Folding Bedsteads, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to that class of bedsteads which are capable of being folded into a compact form and into the semblance of a wardrobe or other similar piece of furniture; and the invention consists in certain features hereinafter described, and specifically set forth in the claims.

In this instance I provide a bedstead which when closed has the appearance of and also serves the function of a dressing-case or writing-desk, and at the same time is provided with novel means for folding and unfolding and transforming the structure from one position to another, whereby it is available for several practical purposes.

Referring to the drawings, Figure 1 is a front elevation of one-half of the bedstead when closed, or in condition to serve as a dressing-case and writing-desk combined. Fig. 2 is a side elevation of the same in a similar position. Fig. 3 is a central vertical section of the same with a part of the bedstead proper, lowered for such. Fig. 4 is a side elevation of the bedstead extended for use as such, the head portion of the same being modified in construction from the forms illustrated in the preceding figures. Fig. 5 is a plan and partial section of a portion of Fig. 4. Fig. 6 is a vertical section of the foot-board or writing-desk, the writing-table elevated for use as such. Fig. 7 is a rear view of the means employed for raising and lowering the bed portion, and Fig. 8 is a transverse section on the line *x x* of Fig. 7.

Like letters indicate like parts in all the figures.

A represents the foot-board, in the base of which is arranged a draw, A', in this instance extending the entire width of the foot-board between the end standards thereof.

A² (see Fig. 1) represents a paneled door

hinged to the outer face of the foot-board, and forming a cover for book-shelves in the compartment formed in the said foot-board.

A³ represents the writing-table, which in this instance occupies about a middle third of the width of the head-board, and is provided with a rack-bar and brace, A⁸, for sustaining the same in an elevated position for use as a writing-table. The compartment A⁴, which the table covers as a door, is available for use as a storage-place for stationary and other articles. A similar compartment to that shown at A² is provided at the opposite side of the writing table. Above the writing table is a series of drawers, A⁶, arranged beneath the top rail, A⁷, of the foot-board, and they may be adapted to be withdrawn therefrom in either direction—that is, toward or from the writing-table A³. Suitable casters are provided for the foot-board to facilitate its movement along with the bed portion proper when opening and closing the same.

B represents one of the side rails of the bed portion proper, and is hinged to the foot-board at B', the said hinge being arranged on a side rail at a point some distance from the end thereof, so that when folded up, as hereinafter described, the end of the side rail will project below the hinge-point and within the head-board. Each of the side rails B is secured to the cross-bar C, at the head portion thereof, by means of a pivot or any suitable hinge, B², and the said cross-rail C is provided with a guide, C', adapted to travel along the edge of an upright, D, extending from the bottom to the top of the head-board, inclosing case E. At the rear end of the head-board case E are the transverse shafts E' E², the former carrying a pinion, E³, and the latter a gear, E⁴, and sprocket E⁵. At the top of the case are pulleys E⁶, around which and the sprocket-wheels E⁵ pass the lifting straps or bands E⁷, to which are secured weight or weights E⁸ at such a point that when the side rails are horizontal said weights will be elevated, as shown in Fig. 3, so as to serve as a counterbalance when the side rails are elevated, as hereinafter described.

In Fig. 4 the case E is provided with a simple projecting cornice, E⁹, from which any

suitable curtain may be dropped to conceal the bed when folded within said case.

In Figs. 1, 2, and 3 I illustrate a provision of the front section, F, for such case, in the upper portion of which is a panel or mirror, F', which, when the bed is folded within the case, occupies an elevated position above the foot-board, which, with its drawers and compartments, may serve as a dressing-case and writing-desk, as hereinbefore described, thus giving the entire article a finished and pleasant appearance when closed, not only excluding from view the bed proper, and having a fine exterior appearance, but also possessing practical functions in all the exposed parts. The front section comprises sides F², which are arranged vertically and arranged to slide within the head-case E, the said front sections being supported in any suitable manner in the frame-work of the top of the head-board case. For instance, the said front section may be supported upon rollers F³, running upon suitable tracks, F⁴, inclined, as shown, or not, as desired, or a slot, F⁵, as shown by dotted lines in Fig. 2, may serve to receive a projecting pin or rod, with or without a friction-roll provided upon the outer sides of the front section, whereby it may be moved bodily from or within the head-board section. When the tracks F⁴ are employed and inclined, as shown, it will be seen that the front section will, when the side rails B and the bed proper are withdrawn from the head-board casing, run by gravity within the casing.

When it is desired to fold the bedstead, while elevating the side rails, the bottom frame of the bed, the mattress, and the bed-clothing to a position behind the front section, F, the attendant grasps with one hand the lower end of said front section and pulls or swings it outwardly while turning the crank and revolving the sprocket-wheel E⁵.

F⁹ represents a tightener for the elevating-band E⁷, and consists of an ordinary bolt passing through one end of the band, then through the opposite end of it, and into a screw-threaded plate, E¹⁰, so that by turning the bolt the two ends of the band are drawn toward each other, and all slackness thereof is taken up. The strap or plate E¹⁰ is secured in any suitable manner to the cross-bar C, and there may be as many sprocket-pulleys and bands as desired—that is, one or more elevating-bands may be employed with each bed. The cross-bar C is provided with brackets C², which support, pivotally, the head-board B³, proper, whereby the same may be folded down within the side rails, B, if desired. Now, it will be seen that by turning the crank-shaft E the head end of the bed proper may be elevated within the head-board casing E, the foot-board following upon its casters upon the floor, and the cross-bar being guided upon the uprights D, and that when the parts come together they assume the posi-

tion shown in Fig. 2, the front section being retained outwardly by the bed and bedding inserted between it and the rear wall of the head-board casing, as clearly shown by dotted lines in said figure.

I am aware that the side rails of folding bedsteads have been hinged to the foot-board at one end and the opposite end elevated within the casing by means of belts and counterbalancing-weights, and that the front has been closed with doors hinged to the sides, and that a writing-desk provided with a hinged front has been attached to the foot-board of a bed having its side rails of two lengths hinged together, and I do not claim the above-stated construction.

Having described my invention and its operation, what I claim is—

1. In a folding bedstead, the combination of a foot-board, side rails pivoted thereto, a head-board provided with a cross-bar pivotally secured to the side rails, a front section movable upon the head-board casing, and means for elevating the cross-bar within the casing, substantially as specified.

2. In a folding bedstead, a foot-board provided with a writing-table, and hinged brace A⁸ for supporting the same at any desired angle in an open position, in combination with a compartment extending below the hinge of said table and of which the said table forms a door, substantially as specified.

3. The combination of a foot-board provided with a drawer in the bottom portion thereof, a series of drawers at the top thereof, and a series of compartments between said upper and lower drawers, with the door of said compartments sustained by an adjustable brace and adapted to serve as a writing-table, substantially as specified.

4. In a folding bedstead, the combination of the head-board case E, having tracks secured to its sides, and the front section adapted to slide upon said tracks and within said head-board case, with side rails pivoted to a cross-bar and connected to a counterbalancing elevating strap or straps, substantially as specified.

5. The combination of the band or bands E⁷, sprocket E⁵, pinion E³, crank-shaft E¹, with the cross-bar C, having guides C¹, uprights D, side rails, B, and foot-board A, substantially as shown and described.

6. The combination, of the head-case E, side rails hinged to the foot-board, and the cross-bar of the head-board hinged to the side rails, with a crank, gears, and vertical bands for elevating the side rails by their forward extremity, substantially as described.

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

GEORGE H. KANMACHER.

Witnesses:

H. MUELLER,
N. W. DICK.