

(No Model.)

3 Sheets—Sheet 1.

G. SUGG, J. BEIERSDORF & C. RUNTE.

FOLDING BED.

No. 344,291.

Patented June 22, 1886.

Fig. 1

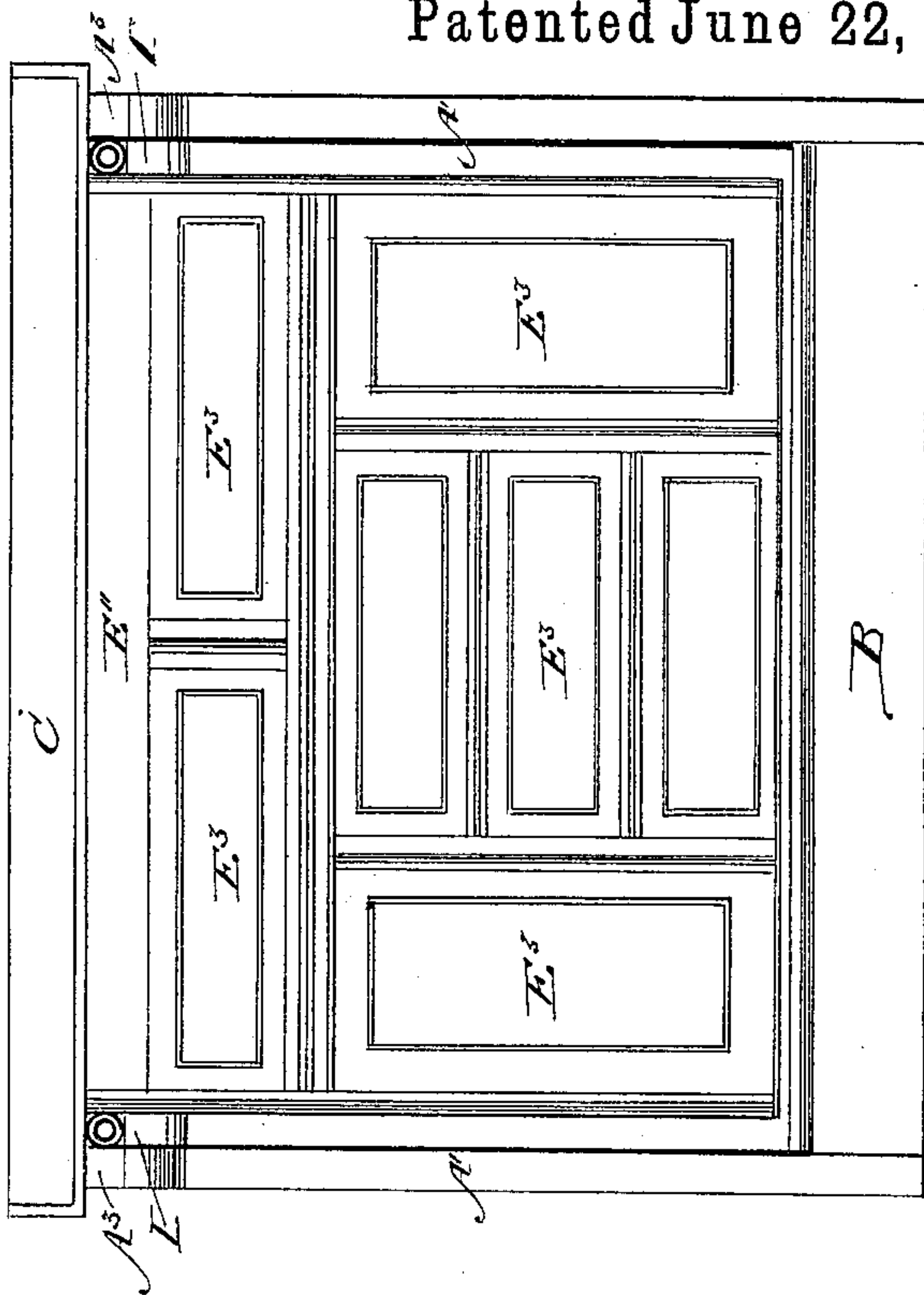
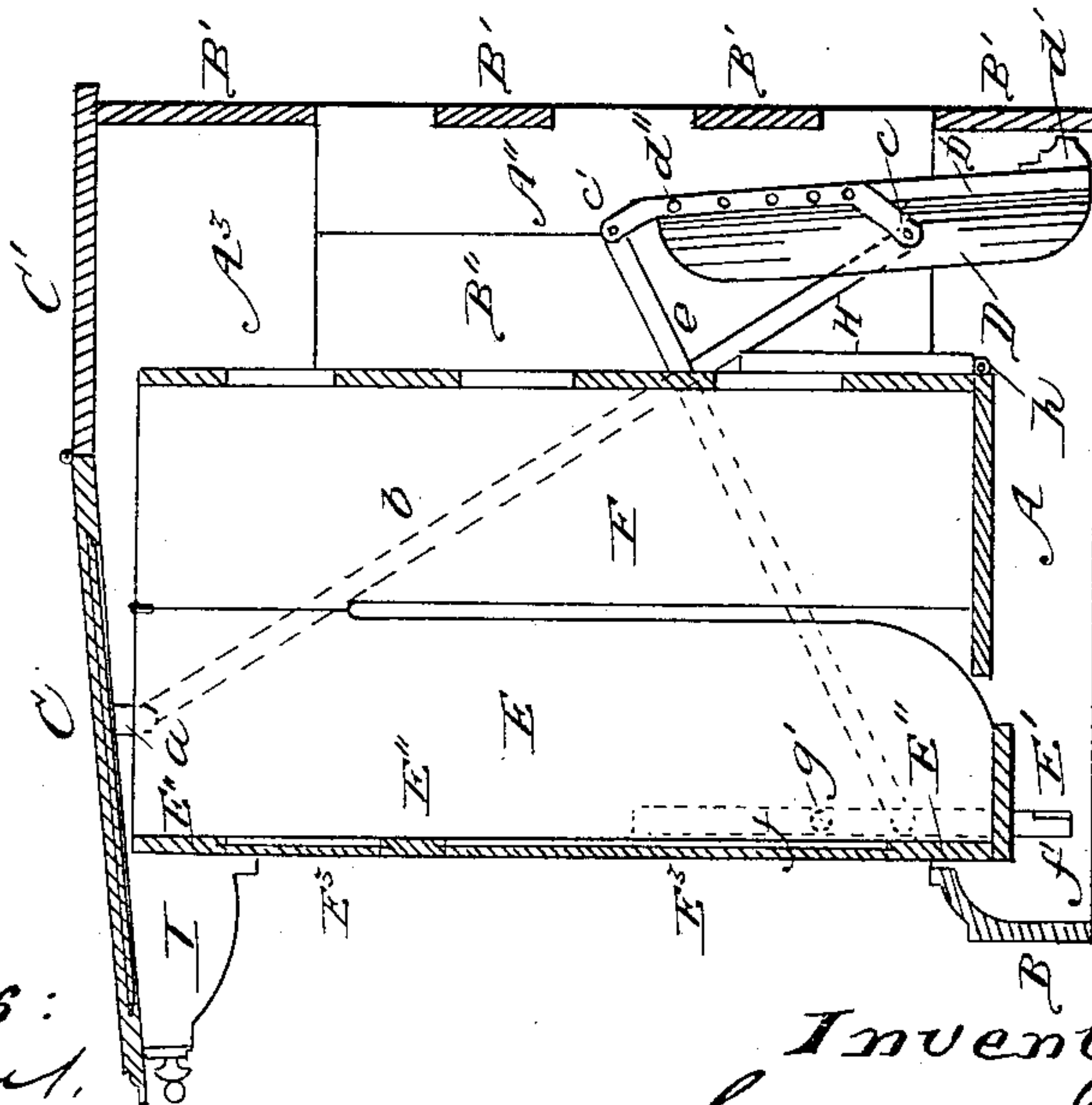


Fig. 2



Witnesses:  
Albert H. Adams,  
Harry T. Jones.

Inventor:  
George Sugg,  
Jacob Beiersdorf,  
Charles Runte.

(No Model.)

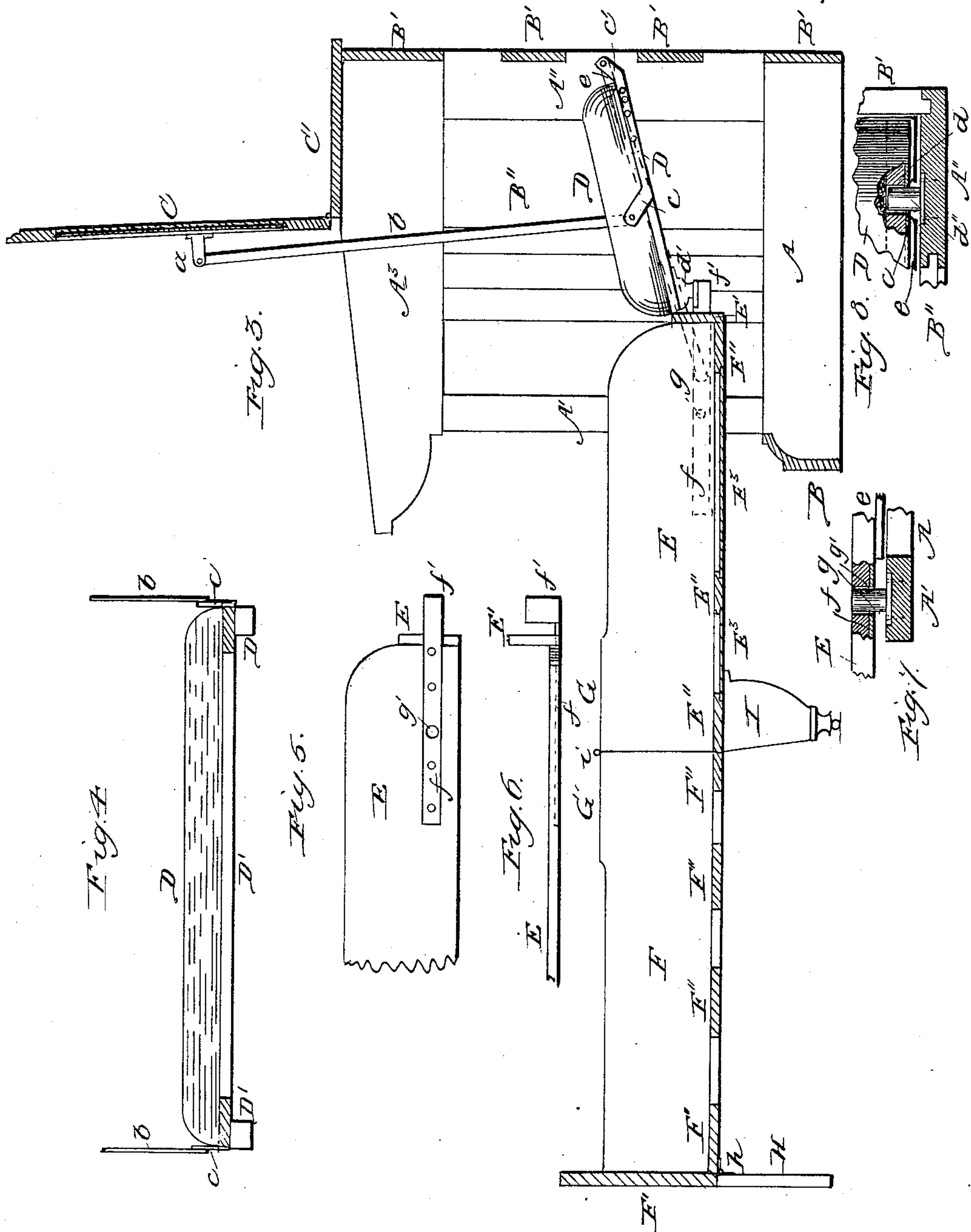
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3 Sheets—Sheet 3.

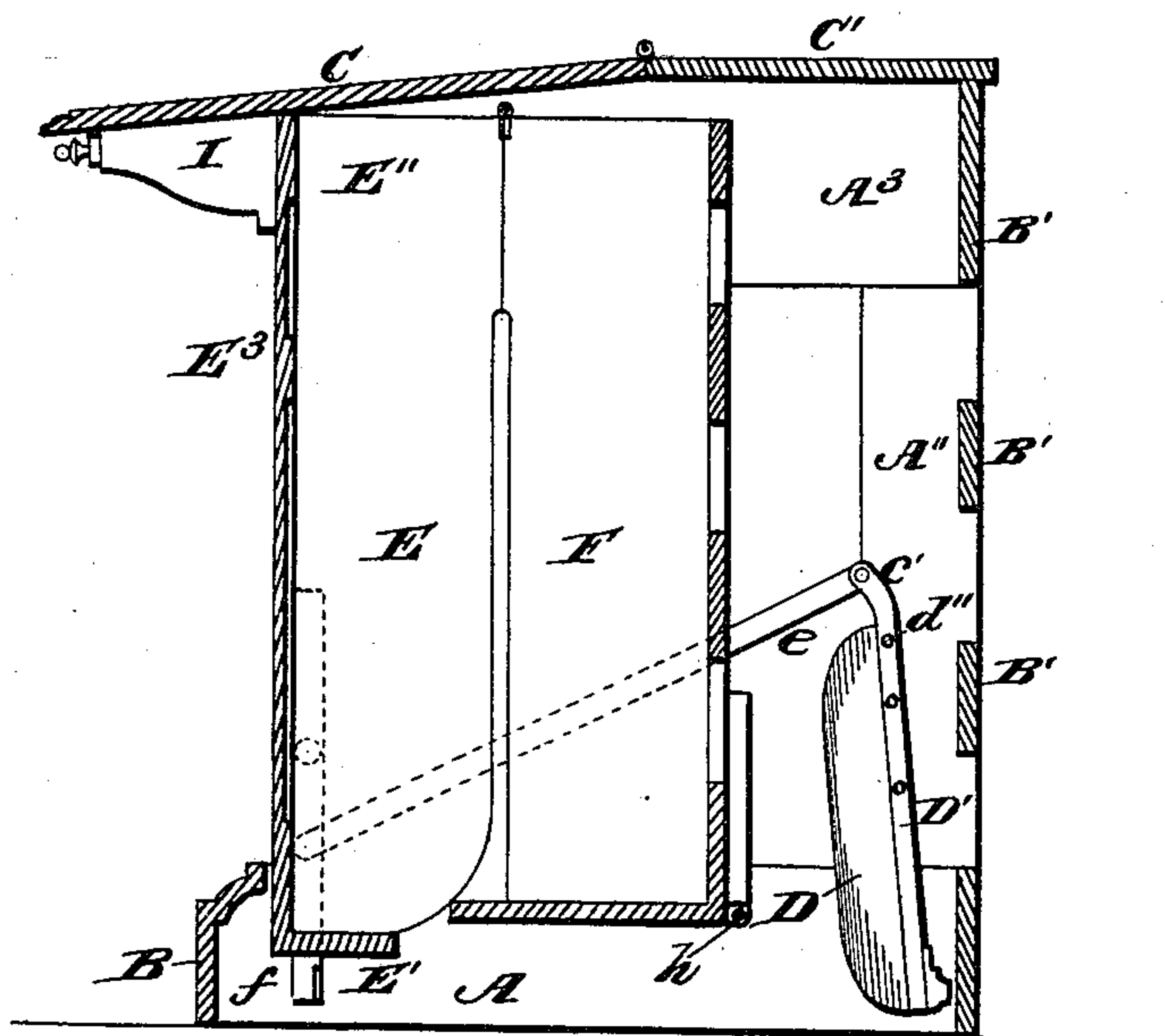
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*Fig. 9.*



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# UNITED STATES PATENT OFFICE.

GEORGE SUGG, JACOB BEIERSDORF, AND CHARLES RUNTE, OF CHICAGO,  
ILLINOIS, ASSIGNORS TO THE SUGG & BEIERSDORF COMPANY, OF SAME  
PLACE.

## FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 344,291, dated June 22, 1886.

Application filed December 4, 1885. Serial No. 184,711. (No model.)

*To all whom it may concern:*

Be it known that we, GEORGE SUGG, JACOB BEIERSDORF, and CHARLES RUNTE, residing at Chicago, in the county of Cook and State of Illinois, and citizens of the United States, have invented new and useful Improvements in Folding Beds, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a front elevation with the bed closed; Fig. 2, a cross-section with the bed closed; Fig. 3, a longitudinal section with the bed open; Fig. 4, a detail, partly in section, of the head or bolster; Fig. 5, a detail showing the pivot for the bed-sections and the rest for the head or bolster; Fig. 6, a top view of the parts shown in Fig. 5; Fig. 7, a detail of the pivot for the bed-sections; Fig. 8, a detail of the pivot for the head or bolster; Fig. 9, a cross-section with the bed closed and bar or rod connecting cover and bolster omitted.

This invention relates to folding beds, and has for its object to enable the parts forming the bed to be located and operated within a casing having the height of an ordinary sitting or writing desk; and its nature consists in the several parts and combinations of parts hereinafter described, and pointed out in the claims as new.

In the drawings, A represents the base-pieces of the frame of the casing or desk, A' the front corner-post, and A'' the rear corner-posts, and A<sup>3</sup> the top rail or support, which parts may be arranged as shown or otherwise to form a frame having the dimensions of a writing or sitting desk, with sufficient width and depth for the reception of the sections forming the bed portion; B, the front piece, B', the rear pieces, and B<sup>2</sup> the ends, of the casing or desk, and, if desired, the ends B<sup>2</sup> can be formed in panels, and, as shown, the rear or back, B', is left somewhat open for the admission of air to the bedding; C, the hinged section of the top or cover, and C' the stationary section thereof; D, a bolster or head formed of a suitable frame, D', and an upholstered portion therefor; E, a folding section of the bed, formed of side pieces connected at one end by an end piece, and having cross-pieces E'', to form a rest for the mattress and bedding, and, as shown, the section E, is paneled or pro-

vided with panels E<sup>3</sup>, to present a neat appearance when the bed is folded up; F, the other section of the folding bed, hinged at *i* to the section E, and formed of side pieces united at one end by a cross-piece, F', which, when the bed is open, forms the foot-board, and having cross-pieces F'', to furnish a support for the mattress and bedding; G G', raised portions on the abutting ends of the side rails of the sections E F, to increase the width of space when the sections are folded without increasing the width of the side rails as a whole, and thus provide a space for the mattress and bedding, with an opening for the admission of air; H, legs hinged at *h* to the end of the section F, so that when the bed is extended the legs will drop down and furnish a support, and when folded the legs will fold in, as shown in Fig. 2; I, legs firmly secured to the end of the section E, and finished up so as to present a neat appearance when the bed is closed, as shown in Fig. 1.

The top or cover C, near each end, has attached thereto a pendant, *a*, to which is pivoted a link, *b*, the other end of the link being pivoted to an arm, *c*, on the frame D' of the rest or bolster; and this frame has thereon another arm, *c'*, which may be formed with the arm *c*, to which is pivoted the end of a link, *e*, the other end of which is pivoted to a piece, *f*, attached to the side rail of the section E, and this piece *f* projects beyond the end piece, E', and forms a stop or rest, *f'*, for a leg or rest, *d'*, on the bolster-frame, as shown in Fig. 3. The bolster-frame is pivoted to the corner-post A'' by a pivot or trunnion, *d*, on the post, which enters a suitable bearing, *d''*, on the frame, and the side rail of the section E is pivoted to its adjoining post, *a'*, by a trunnion, *g''*, on the post A', which enters an opening, *g'*, in the piece *f* and side rail. It is to be understood that the parts represented by the letters *a, b, c, c', d, d', d'', e, f, f', g, g'*, and *g''* are duplicated, a set being used for each side of the bed.

The head or bolster D and sections E F form, when extended, a full-length bed, and the section E is pivoted in such relation to the height of the case, and its length is such in relation to the height of the case, that when thrown up it will lie within the cover C, and when so



folded up the section F is folded onto the section E, and the head or bolster D is dropped down, as shown in Fig. 2.

The sections are extended to form a bed by dropping the section E to have the legs I rest on the floor, and such dropping of the section E carries with it the section F, and at the same time, through the link *e* and arm *c'*, throws up the head or bolster D, and this same movement also, through the arm *c* and link *b*, raises the cover C, so as to leave a clear space for unfolding the section F, so that with the opening of the section E the head or bolster is automatically raised, and at the same time the cover C is thrown up. The bed is closed by turning the section F onto the section E, the section F being of such length as to drop inside of the bolster D when elevated, as shown in Fig. 3. The section E is then raised and such raising, through the links *e b* and arms *c c'*, throws down the bolster D and closes the cover C, and the time in which the parts are moved is one that causes the bolster to assume the position shown in Fig. 3 before the section E is quite down, so that the rests *f'* will come beneath the rests *d'* and support the bolster at the edge adjoining the section E, the bolster being supported at its other edge by the pivots through which it is attached to the posts A".

The link *e* throws up the head or bolster D, and such upper movement of the bolster throws up the cover C, through the link *b*, but the folding bolster alone could be used and

operated from the link *e*, a sliding cover or hinged cover operated by hand being used instead of the automatic cover C.

We lay no claim herein to a stationary case composing a writing or sitting desk and enclosing within it folding-bed sections. Nor do we claim the bolster-cover and folding sections connected together by a lever-connection, except as specified in the following claims, as said features form the subject of another application filed by us December 4, 1885, Serial No. 184,710.

What we claim as new, and desire to secure by Letters Patent, is—

1. The combination of a receiving-case, a cover, C, a bolster, D, and a swinging section, E, with the brackets *a*, links *b*, arms *c c'*, and links *e*, for automatically opening and closing the cover and raising and lowering the bolster from the movements of the swinging bed-section, substantially as specified.

2. The combination of section E, having a stop or rest, *f'*, a swinging bolster, D, having a stop or rest, *d'*, to engage with the rest *f* and support the bolster when raised, and a lever, *e*, connecting the bolster with the bed-section, to elevate the lower end of the bolster, substantially as and for the purposes set forth.

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