(No Model.) 2 Sheets—Sheet 1.

C. P. WALDO.

COMBINED EXTENSIBLE SOFA AND BED.

No. 382,743. Patented May 15, 1888.

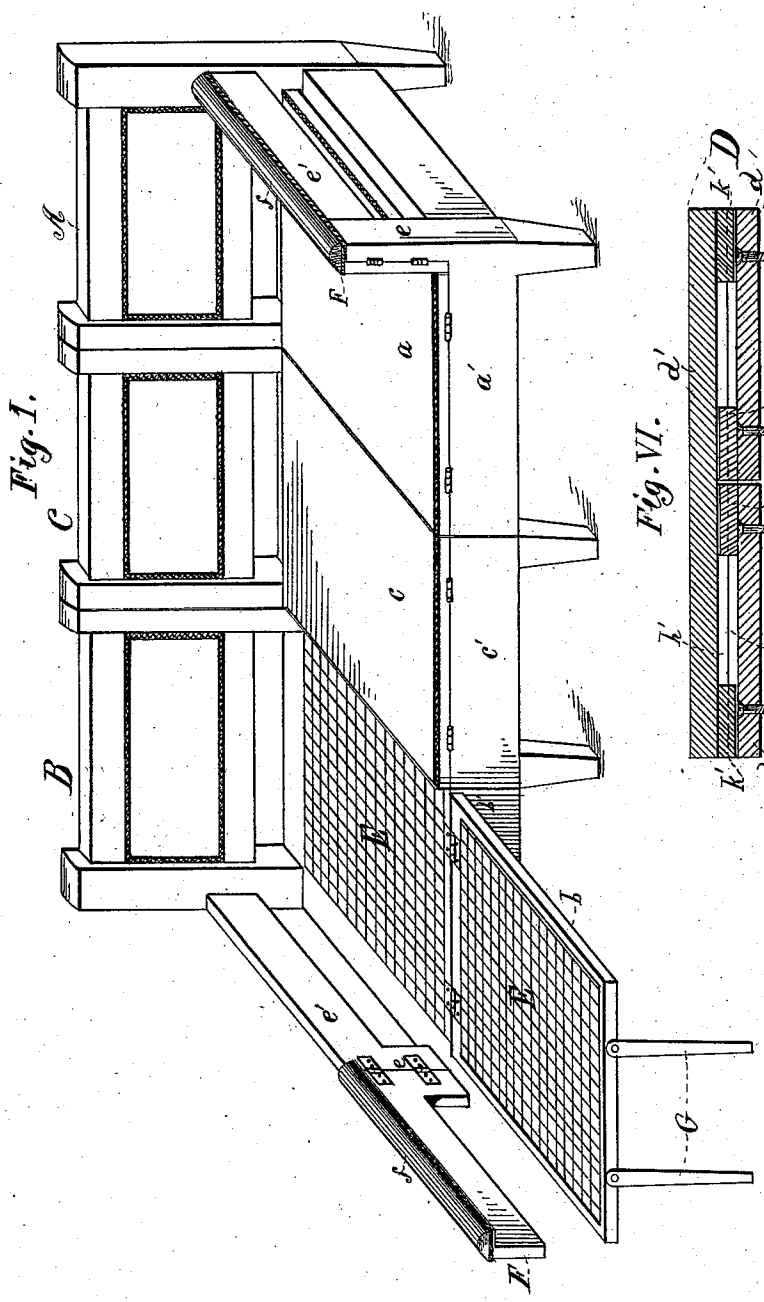


Fig. 1.

Fig. VI.

Fig. VIII.

Witnesses.
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Inventor.
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(No Model.) 2 Sheets—Sheet 2.

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Fig. II.

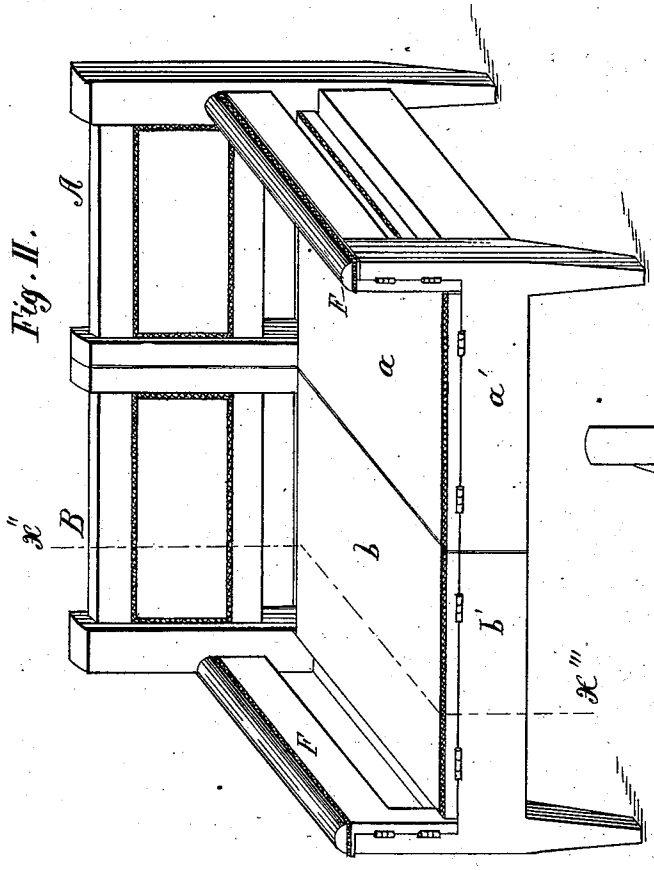


Fig. III.

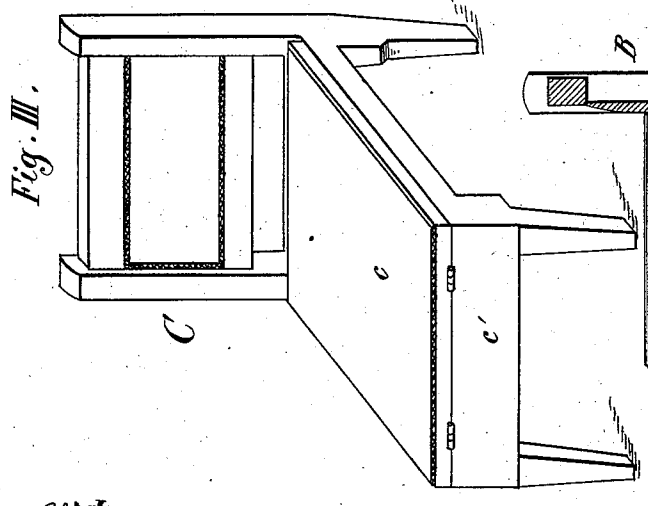


Fig. IV.

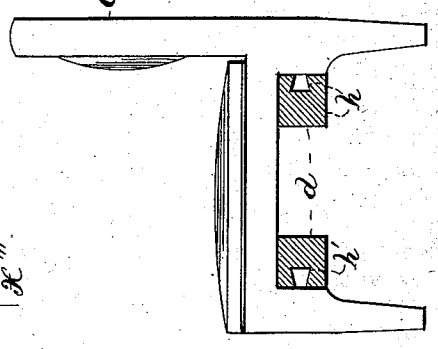
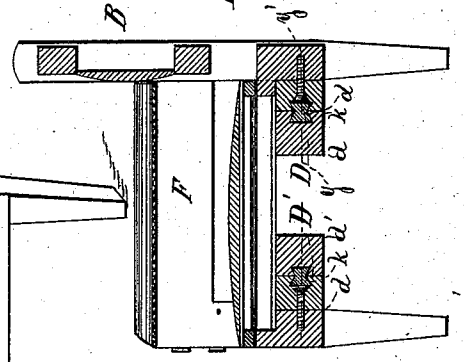


Fig. V.



Witnesses.
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UNITED STATES PATENT OFFICE.

CHARLES P. WALDO, OF CINCINNATI, OHIO.

COMBINED EXTENSIBLE SOFA AND BED.

SPECIFICATION forming part of Letters Patent No. 382,743, dated May 15, 1888.

Application filed November 3, 1887. Serial No. 254,232. (No model.)

To all whom it may concern:

Be it known that I, CHARLES P. WALDO, a citizen of the United States, and a resident of the city of Cincinnati, county of Hamilton, State of Ohio, have invented a certain new and useful Combined Extensible Sofa and Bed, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to house-furniture; and it has for its object to provide an article which is convertible into a small or large sofa or into a small or large bed at will by the addition or taking away of a removable central section, which is itself an easy-chair, and which may be extended into a sort of reclining-chair or short lounge.

To this end my invention consists of the construction hereinafter fully described, and particularly pointed out in the claim.

In the drawings, like letters referring to like parts, Figure 1 is a perspective view of the combined large sofa and large bed, one of the folding sections being opened into the form assumed when used as a bed. Fig. 2 is a perspective of the small sofa, the central section having been removed. Fig. 3 is a perspective view of the central section as it appears detached and in use as an easy-chair. Fig. 4 is an end elevation of the same as it appears in position over the extension-slides, the slides being shown in section. Fig. 5 is a vertical cross-section through one of the end sections of the sofa and the extension-slides, as on the line X″ X‴ of Fig. 2; and Figs. 6 and 7 are detail views in horizontal cross-section on the line Y Y′ of Fig. 5, showing a pair of the extension-slides detached, Fig. 6 showing them closed, and Fig. 7 showing them drawn apart to their farthest limit.

A and B are right and left end sections of a sofa, connected together by suitable extension-slides, D D, attached to the under side of the seat-frames.

C is a removable central section, which, when detached from the sofa, presents the appearance of an ordinary easy-chair with an outwardly-folding seat. This section is made to match the other two, and when the end sections are drawn apart to their outermost limit the middle section is placed between the other two, with its legs over the extension-slides.

The sections are all provided with outwardly-folding seats *a*, *b*, and *c*, each of which is hinged to the forward end of its respective seat-frame *a′ b′ c′*. The under sides of the folding part of the seat-frames are covered with tightly-stretched mattress-wire E. The front legs of the end sections are extended vertically, forming arm rest standards *e*, and a fixed brace, *e′*, or foot-board, connects the same to the back standard. To the front standard, *e*, is hinged an arm-rest, F, provided with a cap plate or rail, *f*, which overlaps the top of *e′* when the arm-rest is in its closed position and the construction is in use as a sofa. When it is desired to use the construction as a bed, this arm-rest F is swung outward into line with brace *e′*, and the two together form suitable foot-boards or head-boards.

To the free end of each of the folding seats *a*, *b*, and *c* are pivoted a pair of legs, G, which assume a vertical position when the seats are turned outward into the bed position, and serve to support the same. These legs fold toward each other lengthwise of the seat and lie flush with the edge of the same when the seat is folded back into the chair or sofa position.

The slides D, which adjustably connect the end sections, may be of any kind suitable for the purpose. As shown, each pair is composed of fixed pieces *d* and movable pieces *d′*. The fixed parts *d* are provided with longitudinal dovetailed grooves *h* and combined dovetailed stop-blocks and slides *k* at the inner or facing ends of the grooves. These fixed parts *d* are attached one each to the opposite end sections under the seat-frames. The movable piece *d′* is provided with dovetailed stop-blocks and slides *k′*, which work in the dovetailed grooves *h*, and has also a dovetailed groove, *h′*, extending its entire length between the two end stop-blocks, *k′*. The slides *k* work in the grooves *h′*. One pair of these slides are attached in front and another in the rear under the seat-frame.

It is evident that the end sections can be drawn apart until the stop-blocks *k* and *k′* meet in their respective grooves.

From the description now given it is evident that if the end sections be closed together they form a small sofa, as shown in Fig. 2. If the seats *a* and *b* and the arm-rests F at each end

be unfolded into the position occupied by *b* and F in Fig. 1, a child's bed is formed. If the central section, C, be inserted between A and B and all the seats and the arm-rests be unfolded, an adult's bed will be formed, and if all the seats *a*, *b*, and *c* be folded inward into their normal position, as *a* and *c* in Fig. 1, a large sofa is formed. The central section, when detached from the others, with the seat in its normal or closed position, constitutes an easy-chair, and if the seat be unfolded it will make a narrow lounge. By my construction I therefore form five or six serviceable articles for household use. A single combined article is made which is convertible into several different articles, all of which are serviceable pieces of furniture.

What I claim, and desire to secure by Letters Patent of the United States, is as follows:

In combination, the end sections, A and B, provided with the pivoted seat *a* and *b* and the pivoted arm-rests F *f*, the extension-slides D, adjustably connecting said sections, the removable central section, C, provided with the pivoted seat *c*, adapted to fit over the slides and between said end sections, the folding legs G, pivotally attached to the free ends of said pivoted seats and adapted to assume a vertical position and support the same when opened outward into a bed-bottom, and the mattress-wire E, covering the under side of the pivoted seats and the seat-frames, substantially as and for the purpose set forth.

CHARLES P. WALDO.

In presence of—
FRED H. CROUGHTON,
JOHN D. BERRY.