

H. J. GRIMME.
Sofa-Bedstead.

No. 203,141.

Patented April 30, 1878.

Fig. 1

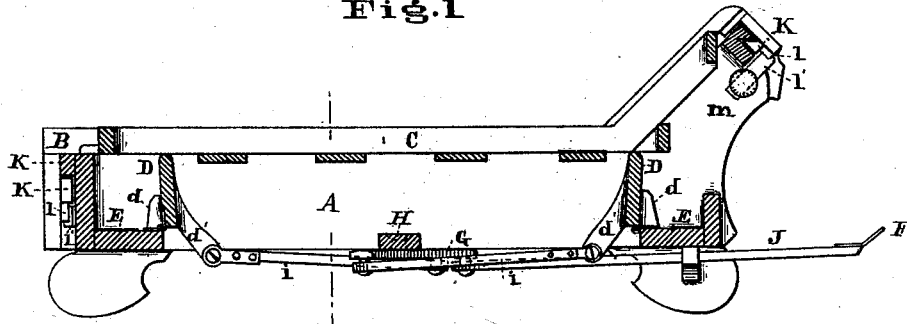


Fig. 2

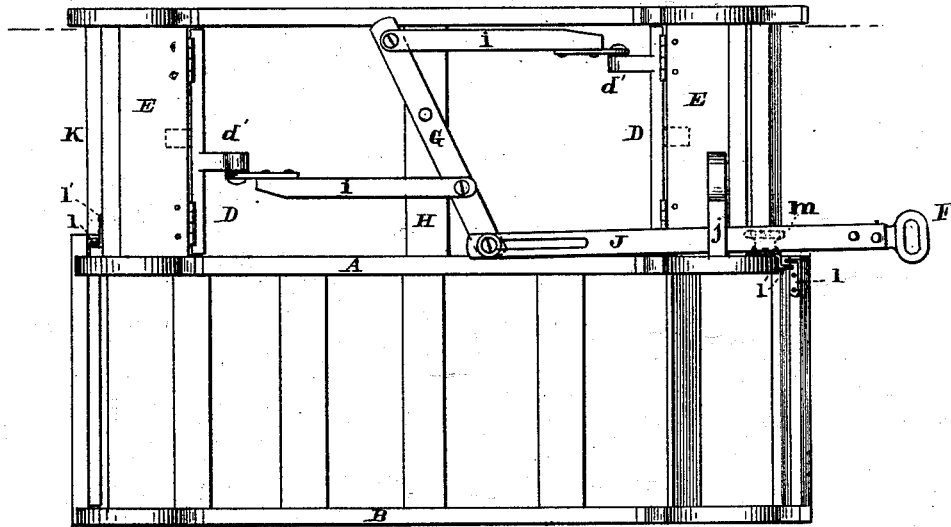
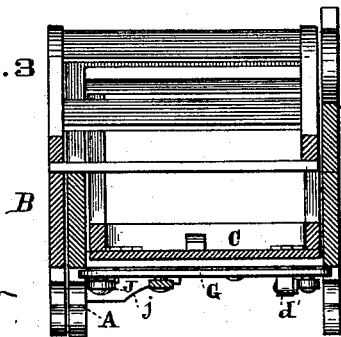


Fig. 3



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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN SOFA-BEDSTEADS.

Specification forming part of Letters Patent No. 203,141, dated April 30, 1878; application filed September 28, 1877.

To all whom it may concern:

Be it known that I, HERMANN J. GRIMME, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Extension-Lounges, which improvement is fully set forth in the following specification and accompanying drawing.

This invention relates to that class of extension-lounges which have a stationary frame, an extension-frame to close over the stationary frame, and a false bottom, which is closed within the stationary frame to permit the sliding frame to pass over it, and is adapted to be raised to a level with the seat to form a bed when the lounge is extended.

The objects of the invention are to provide a cheap and convenient means for elevating and depressing the false bottom, and supporting it when elevated.

In the drawing, Figure 1 is a longitudinal vertical section of the extended lounge, taken in a plane through dotted line, Fig. 2, and looking to the front. The false bottom in this view is elevated to the position it occupies when used as a bed. Fig. 2 is a plan view of the lounge inverted, to show the operating-levers, slides, and stops. In this view the frames are shown extended and the false bottom removed. Fig. 3 is a vertical transverse section of the closed lounge, looking to the head of the lounge. The sectional plane is shown by dotted line, Fig. 1.

A is the stationary, and B the sliding, frame. C is the false bottom. D are wings, hinged to the cross-pieces E at the head and foot of the stationary frame. Brackets *d* are secured to the wings D in a position to rest upon the cross-pieces E when the wings are turned up, and support the false bottom and the weight upon it, thus relieving the hinges, by which arrangement the wings may fold lower in the frame than if they were hinged to the top of the cross-piece and away from the edge, and be equally as strong, at the same time permitting a larger spring to be used in the bed.

The device for operating the wings D to elevate and depress the false bottom is composed of the lever G, pivoted underneath the stationary frame to the center cross-brace H; two links, I, attached to the lever G at opposite sides of its fulcrum-pin, and to arms *d'*,

which are secured to and depend from the wings D; and the slotted rod or bar J, which slides in a guide-piece, *j*, secured to head cross-piece E, and has a handle, F, for operating it.

Across the head and foot pieces of the stationary and sliding frames are slides K, and adjoining the slide-bars upon the extension-frame, and near their inner ends, are two angle-pieces of metal, L, two similar pieces, L', being secured to the stationary frame in a position to strike the pieces L when the lounge is extended, and stop it in a position to permit the false bottom to be elevated to form a bed. One of the stops, L', is secured to the inside of the head-piece of the stationary frame by a set-screw, *m*, so that, when it is desired to remove the sliding frame for cleaning or repairs, the screw can be loosened by the thumb and finger, the stop turned down, and the frame withdrawn. In replacing the frame, the foot-stops are first interlocked, the head then slipped to its place, the stop turned up against the slide-bar, and the thumb-screw *m* tightened.

To change the lounge to a bed, the upper frame is drawn out until the slides lock against each other. Then, taking hold of the handle F of bar J and drawing it out, the false bottom will be elevated. The bar J is then pushed back out of the way. The slot at its inner end is to permit this closing in of the bar without turning down the wings. When the lounge is to be closed, the bar J is pushed its full distance. This turns the wings D from the perpendicular, when the weight of the false bottom will close them down and permit the sliding frame to be closed.

I claim—

In an extension-lounge having a stationary frame, sliding frame, and a false bottom, the wings D, having the arms *d'*, in combination with the device for operating said wings, composed of lever G, links I, and sliding slotted bar J, said operating device being located below the stationary frame, substantially as specified.

HERMANN J. GRIMME.

Witnesses:

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