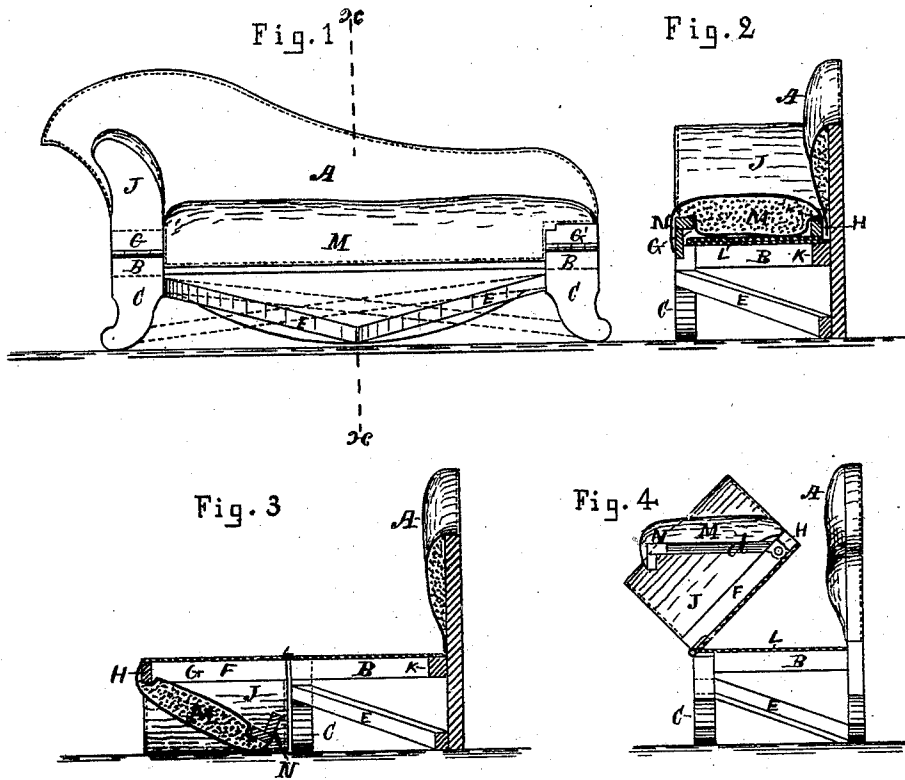


D. J. POWERS.
BED-LOUNGE.

No. 170,687.

Patented Dec. 7, 1875.



WITNESSES:

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UNITED STATES PATENT OFFICE.

DAVID J. POWERS, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN BED-LOUNGES.

Specification forming part of Letters Patent No. **170,687**, dated December 7, 1875; application filed October 26, 1875.

To all whom it may concern:

Be it known that I, DAVID J. POWERS, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Bed-Lounges; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a front elevation of a bed-lounge embodying my said invention. Fig. 2 is a transverse section of the same, taken on line *x x*, Fig. 1, when folded. Fig. 3 is a transverse section when unfolded, and Fig. 4 is an end view of the same when partially folded.

Similar letters of reference indicate like parts in the several figures of the drawing.

The object of my invention is to provide a frame-work for a bed-lounge or sofa, so constructed as to leave a space underneath the web or fabric constituting the bed-bottom, to prevent the fabric from resting upon the frame-work when sprung down by the weight of the occupant, and to so arrange the cushion constituting the seat that when the latter is folded it will come properly into place and rest upon the fabric constituting the bed-bottom, and readily drop away from the fabric when unfolded, so as to leave the same free from contact with the cushion. To that end it consists in the arrangement of parts as will be more fully understood by the following description and claims.

In the drawing, A represents the back of the lounge proper, which is upholstered in the usual manner; and B B, the cross-rails, which are permanently attached at one end to the back below the upholstering. C C are the feet, attached to the end of the rails B B for supporting the front of the lounge. E E are braces, connected at one end to the feet immediately below the rails B B, and extend obliquely downward and backward to the center of the back, as shown in Fig. 1. These braces constitute the front rail of the frame-work of the lounge proper when folded, and are so arranged as to leave a space between the upper surface of the same and lower surface of the

cushion when the latter is folded back upon the rails B B, as shown in Fig. 2. F is the frame supporting the cushion, this frame consisting of two cross-rails, G G', and a longitudinal rail, H, the latter forming the front rail when the cushion is unfolded. One end of each of the cross-rails G G' is hinged to the cross-rails B B in such a manner as to rest upon them when the frame is folded, and to be in the same plane with them when unfolded. J is the frame-work, constituting the end or head of the lounge, which is permanently attached to rail G, and upholstered in the usual manner. K is a bar or cleat, secured to the back of the lounge, and extending its entire length. L is the web or fabric constituting the bed-bottom. This fabric is firmly secured at its ends to the cross-rails B B and G G', and at its sides to rail H and cleat K, so that when the cushion (consequently the frame F) is unfolded, the fabric extends across the entire surface of the lounge from cleat K to rail H, forming the bottom on which the mattress is supported. M is the cushion forming the seat when folded. This cushion is provided with a longitudinal rail, N, arranged within its front edge, and extending its entire length. Permanently attached to each end of this rail is a transverse bar, *d*, extending across the end of the cushion. These bars are each hinged, respectively, at the end opposite to rail N to the rails G G' at a point near rail H, as shown in Fig. 4, and the edge of the covering of the cushion is firmly secured to the outer edge of said rail H its entire length. The arrangement of this cushion is such that when folded the rear edge is supported upon rail H, and the center upon the web L, and when unfolded the gravity of the cushion causes its front edge to drop away from rails G G', as shown in Fig. 3.

By arranging the braces E E below the cross-rails B B, and hinging the cushion to frame F, as described, the web or fabric constituting the bed-bottom is left free to spring down under the weight of the occupant without coming in contact with or resting upon any of the parts of the lounge when the cushion is unfolded, thus obviating the objection of a center rail, as in the lounges now in use,

while at the same time the braces prevent the cross-rails B from being drawn inward toward each other by the weight of the occupant.

I do not confine myself to the use of the short braces E E, meeting in the center of the back of the lounge, as described, for I sometimes continue them from the lower surface of rails B B diagonally across to the bottom of the foot at the back of the lounge, as shown by dotted lines, Fig. 1; nor do I confine myself to any particular kind of fabric for the bed-bottom, as the ordinary webbing or wire fabric, composed of interlocked coils, may be used. When the latter fabric is used it gives better results to only attach it at its ends to the cross-rails, leaving the sides disconnected from the frame-work of the lounge; but, if desired, it may be attached all around.

It will be observed, by reference to Fig. 2 of the drawing, that the lower edge of rail N of the cushion drops below the front of the web forming the bed-bottom, and is upholstered on

its front side, the object being to form a complete finish when the cushion is folded, fully concealing the bed-bottom.

Having thus described my invention, I claim—

1. The frame F and cross-rails B B, supporting the fabric L, constituting the bed-bottom, in combination with braces E E, as described.

2. The cushion M, hinged to frame F, as described, so as to allow it to drop away from the fabric forming the bed-bottom when unfolded, and to rest upon the fabric when folded, as specified.

The above specification of my invention signed by me this 22d day of October, A. D. 1875.

DAVID J. POWERS.

Witnesses:

J. T. WHIPPLE,
JULIUS WELCKE.