

(No Model.)

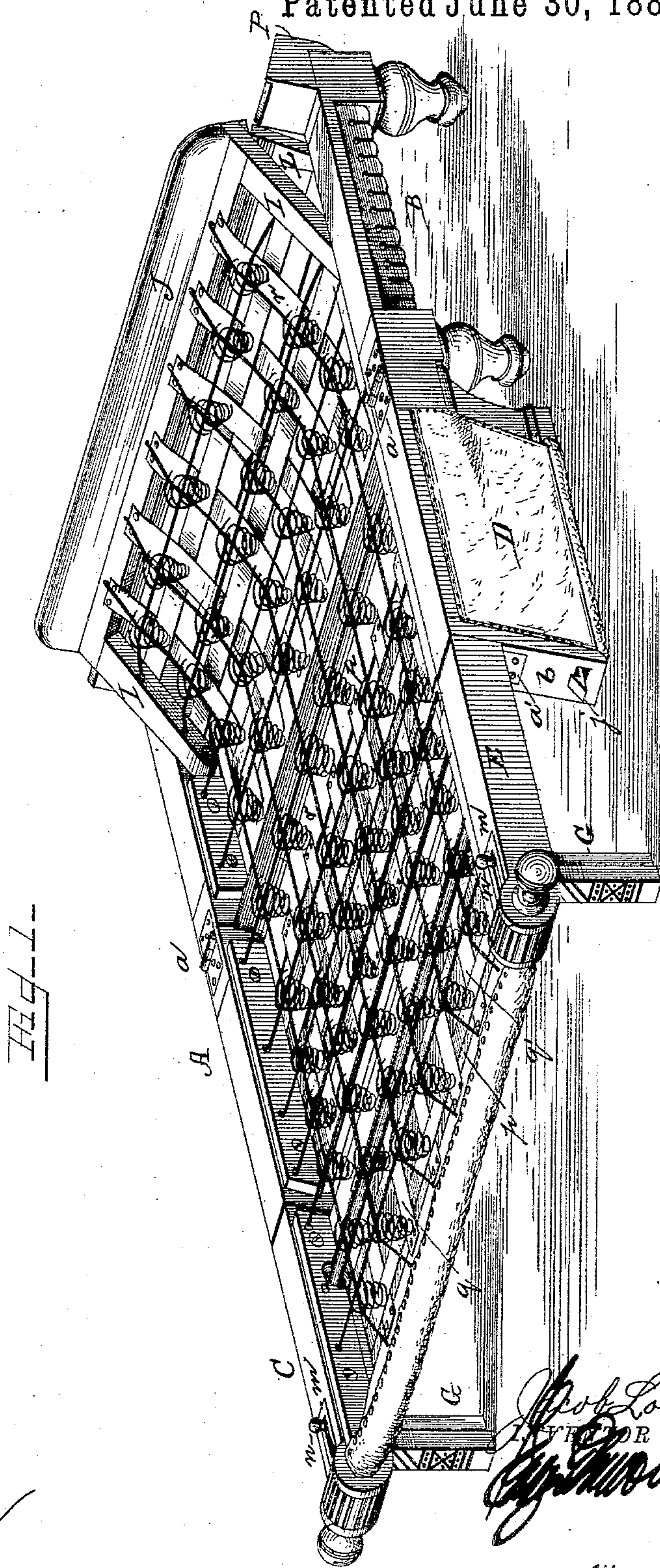
2 Sheets—Sheet 1.

J. LOEBIG.

SOFA BED.

No. 321,305.

Patented June 30, 1885.



WITNESSES  
F. L. Curand.  
E. W. Johnson

Robert Loebig  
DIRECTOR

*Attorney*



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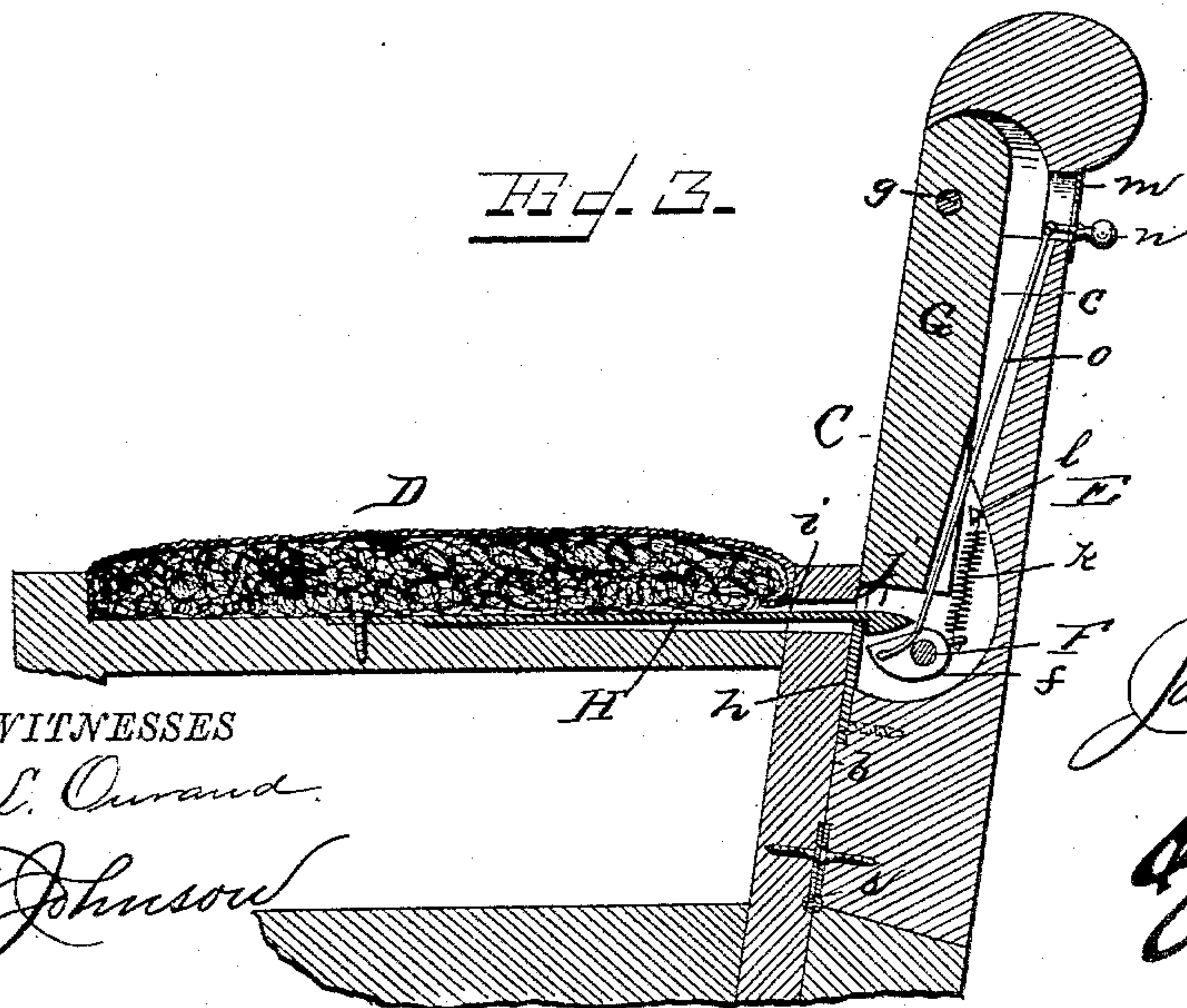
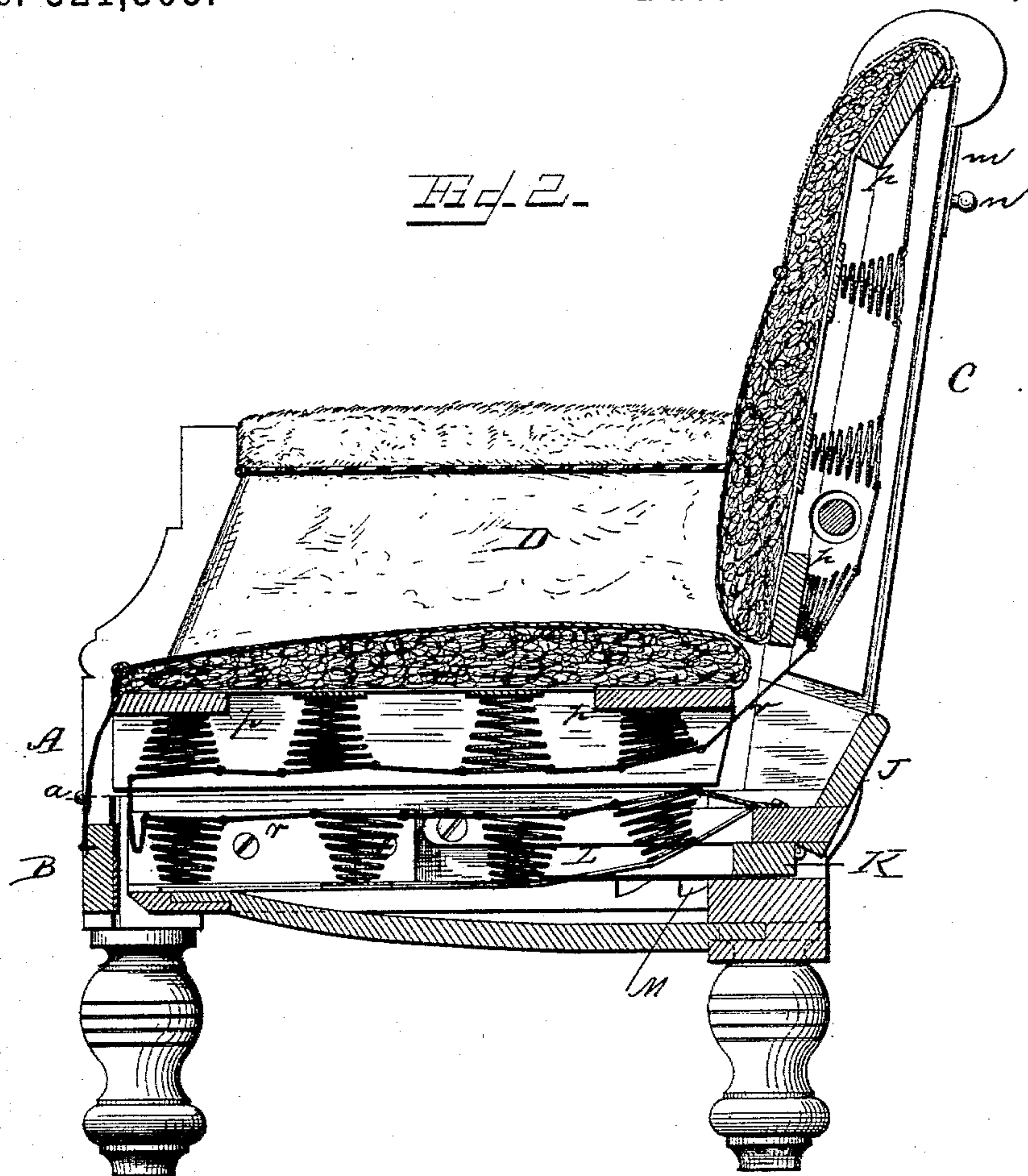
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*F. L. Curand.*

*E. M. Johnson*

*Joseph Loebig*  
INVENTOR  
*[Signature]*  
Attorney



# UNITED STATES PATENT OFFICE.

JACOB LOEBIG, OF CHICAGO, ILLINOIS.

## SOFA-BED.

SPECIFICATION forming part of Letters Patent No. 321,305, dated June 30, 1885.

Application filed September 18, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JACOB LOEBIG, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Sofa-Beds; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention has reference to a combined sofa-bedstead; and the same consists in the improved construction and combination of the parts, hereinafter fully described and explained, whereby the structure is so arranged that the sofa-sections of the same, when unfolded in a horizontal position to be used as a bed, will present upon their upper sides a continuous spring bed-bottom consisting of a series of springs and cords arranged as described hereinafter, and when the said sections are arranged so as to present a sofa opposite faces of two of said sections will be brought into position to present the cushion-surface they are provided with for proper use.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view showing the structure arranged as a bedstead. Fig. 2 is a central sectional elevation of the improvement adjusted as a sofa, and Fig. 3 is a detail sectional view.

The structure consists, primarily, of three sections, A, B, and C, the sections B C of which are hinged to the central section, A, as indicated most clearly in Fig. 1, by means of hinge devices *a a'*. The middle section, A, is provided with side sections, D, which, when the sections occupy the position illustrated in Fig. 2, form the side arms of the sofa. The hinge devices *a* are so arranged and located as to permit the section A to be turned and folded upon the section B in a superposed position, as illustrated in Fig. 2, the hinge devices *a* being so located and arranged as to permit the section C to fold in a contrary direction, so as to bear against the face of the rear bar, *b*, of each side B, and thereby form the back of the sofa. The said back-section is provided at

each side with a bar, E, which is provided with a recess, *c*, into which projects the end of a cross-rod, F, connecting said bars E together and carrying at each end in said recesses a cam, *f*. The said recess *c* is an open recess, but is normally closed for the major portion of its length by a longitudinal block, G, pivotally secured near one end of the recesses by means of a pin, *g*. The open portion of the recess formed at the end of the block is partly covered by means of a plate, *h*, secured on the face of each bar E. A spring, H, is secured at its rear end in a recess, *i*, in each side D, so as to have a limited play therein and permit its free lip end *j* to project beyond the face of the bar *b* of said side. A coiled spring, *k*, located in the lower portion of the recess *c*, is connected both to the cam *f* therein and a pin, *l*, embedded in the bar E. An opening is located in the rear portion of each bar E and communicates with the recess *c* near the pivoted end of the block G therein, and the said opening is covered by a plate, *m*, provided with a vertical slot, through which plays a pin, *n*, having a knob on its outer side to facilitate the manipulation, and connected at its inner end by a cord or rod, *o*, to the cam *f* below. The transverse bars *p* of the sections A C are connected together by a series of textile straps, *q*, which latter are connected together by a second series of straps, *q'*, which are arranged parallel with the bars *p*, and are riveted to the straps *q* where they intersect the same. A vertical coiled spring is secured at each of said intersecting portions, as indicated most clearly in Fig. 1, and the said springs are properly based and supported in their vertical position by means of a series of longitudinally and transversely arranged cords, *r*, which are looped around the tops of said springs, and are secured at their ends to the side and end bars of the pivoted frames. A supplemental frame, consisting of side bars, I, and end bar, J, is pivoted at its inner end in the frame B, and contains a portion of the longitudinal and transverse straps *q q'* of the section B, and also a part of the vertical springs and securing-cords of said section. A bar, K, is hinged on the under side of the bar J, and is provided at each end with arms L, which are adapted, when the bar J is raised, to



assume a vertical or inclined position to enter one of a series of recesses, M, formed in a bearing-shoulder arranged on the inner face of each side bar of the section B.

5 To convert the device from a sofa arrangement, as shown in Fig. 2, to a bedstead, as shown in Fig. 1, it is only necessary to move the section A on its hinge devices *a* so that the same will lie in a plane parallel to that of the section B, after which the pins *n* can be  
10 moved in the slotted plate *m*, so as to exert a pull upon the rod *o*, thereby partially moving the cams *f* and shaft F, so that said cams contact with the head *j* of the spring *i* and lift  
15 said heads out of engagement with the plate *h*, secured in each bar E, after which the entire section C can be swung upward upon its hinges *s*, parallel with the side and end bars of the sections A B, and be supported in  
20 said parallel position by means of the blocks G, which drop pendently, as shown in Fig. 1, and form supporting-feet for the outer end portion of the section C. The pivoted head-section can then be moved to the position  
25 illustrated in Fig. 1, and supported by causing the arms L to engage one of the notches M in the bearing-rail of the section B. When the parts are restored to their first position, of course the section A is simply folded over  
30 upon section B, the blocks G replaced in the recesses *c*, after which the section C is moved on its hinges so that its side bars E bear against the bar *b* of the central section and are automatically engaged by the headed spring *i*, so  
35 that said section C is rigidly held in said position to form the back-section for the sofa.

It will be obvious that the arrangement of straps and springs is such that when the several sections are arranged on a parallel line  
40 the said straps and springs present a spring-bottom for the bed, thereby dispensing with the necessity for an independent section, and thus rendering the device complete as to portability. What is more, the head-section, composed of bars I J, can be readily adjusted at  
45 different inclinations, and when the device is used as a sofa be folded to rest on the bearing-rails of the section B, so as not to interfere with said section, affording a positive seat for  
50 the section A when turned to rest thereon. The section C is so hinged to the section A that, when turned to the position illustrated in Figs. 2 and 3, the adjacent ends of the bars E *b* will present a seat adapted to take over a  
55 block, P, formed at each rear corner of the frame B.

It will be apparent that the device is not only of simple and durable construction, but of easy and ready operation and adjustment, and, moreover, possesses a degree of lightness essential for all requirements of portability.

I am aware of the constructions disclosed by the United States Patent of J. K. Stockton, No. 136,276, granted February 25, 1873, and the patent of C. Pabst, No. 189,363, patented October 31, 1876; and I do not claim, broadly, any features set forth in either of said patents.

I claim—

1. In a combined sofa and bedstead, the three sections A B C, hinged as described, and a head-section pivoted in the section B, and devices for supporting the same in an inclined position, substantially as set forth.

2. The combination, in a combined sofa and bedstead, of the three sections A B C, hinged as described, and the head-section pivoted in the section B, devices for supporting the same in an inclined position, and headed springs H for holding the section C at right angles with the section A, substantially as set forth.

3. In a combined sofa and bedstead, the combination of three sections, A B C, hinged together as described, and provided with springs arranged on a horizontal line, with cords on their upper face, and adapted to form a continuous bed-bottom, the section A being provided with the sides D, the section D with pivoted head-section, and the section C with pivoted blocks G, and headed springs H, carried by the section A, for holding the section C, together with its blocks G, at right angles with the said section A, substantially as and for the purpose set forth.

4. The combination, in a combined sofa and bedstead, of the section A, provided with the sides B, in which is secured the spring *i*, having its head projecting as described, a section, C, hinged to said section A, and having side bars E, recessed to receive the ends of a transverse bar, F, carrying cams *f*, spring *k*, arranged as specified, and means for moving said cams to cause them to contact with said heads, substantially as set forth.

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

JACOB LOEBIG.

Witnesses:

SIMON RICK,  
WILHELM LANGE.