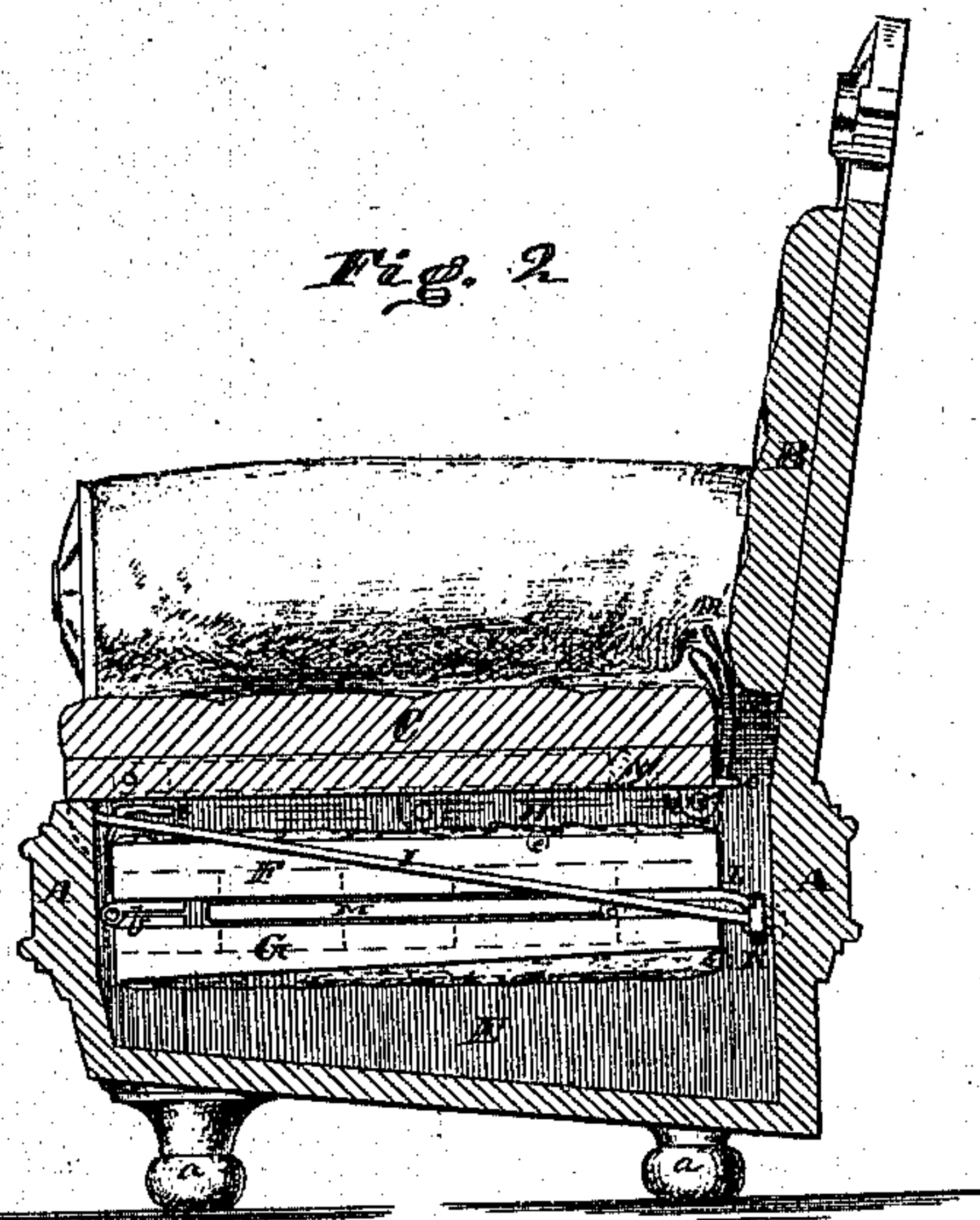
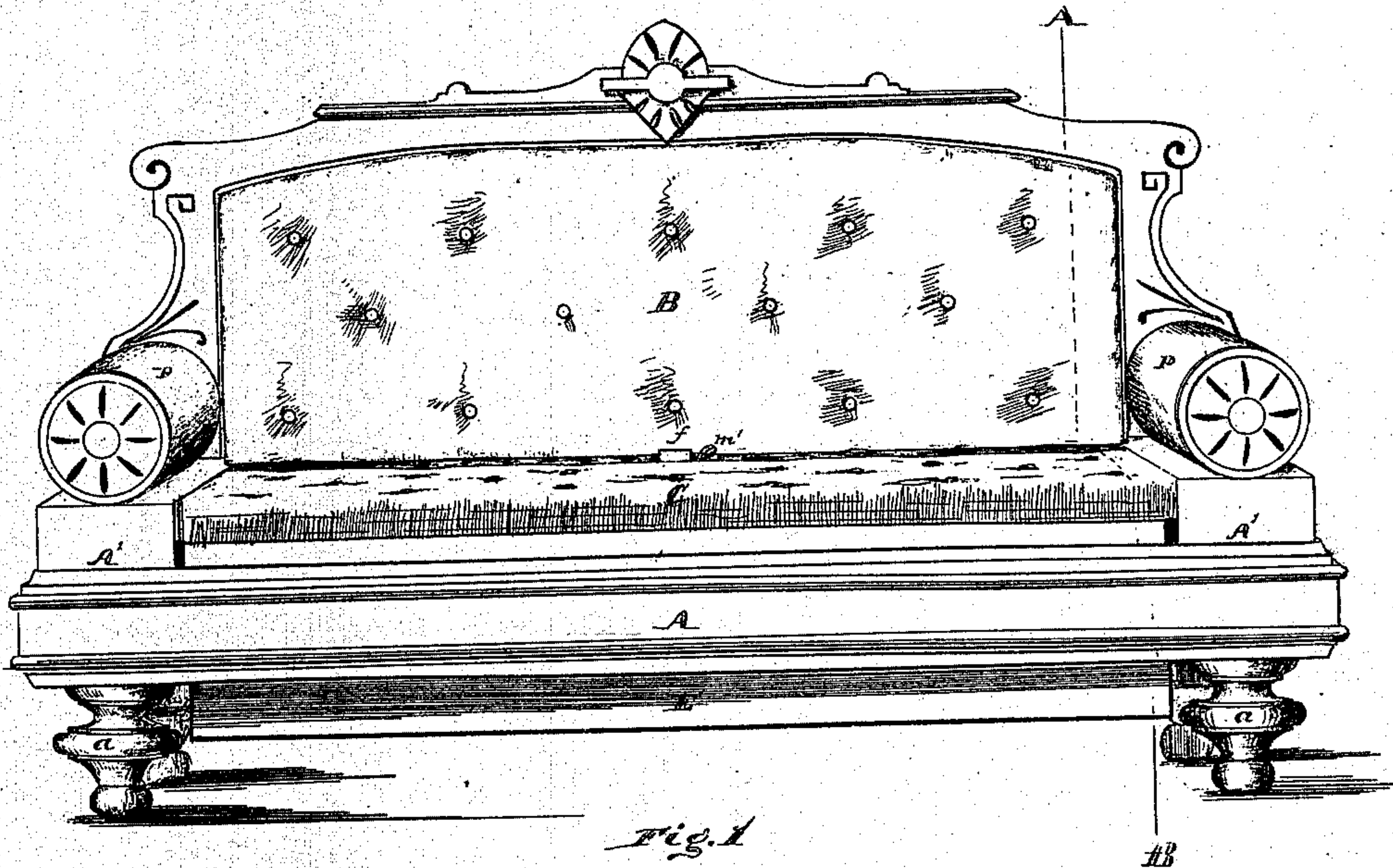


J. J. RUSS.
SOFA BEDSTEAD.

No. 104,358.

Patented June 14, 1870.



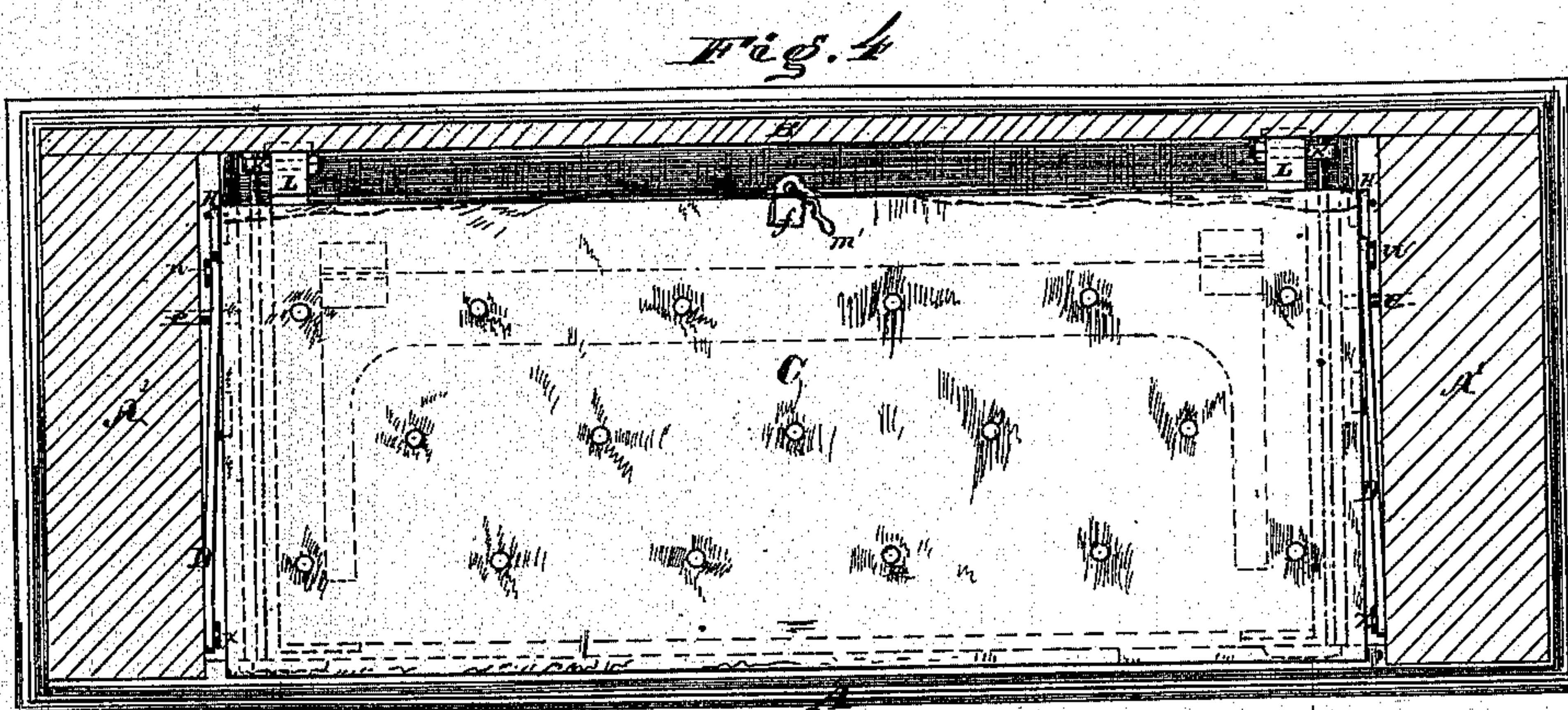
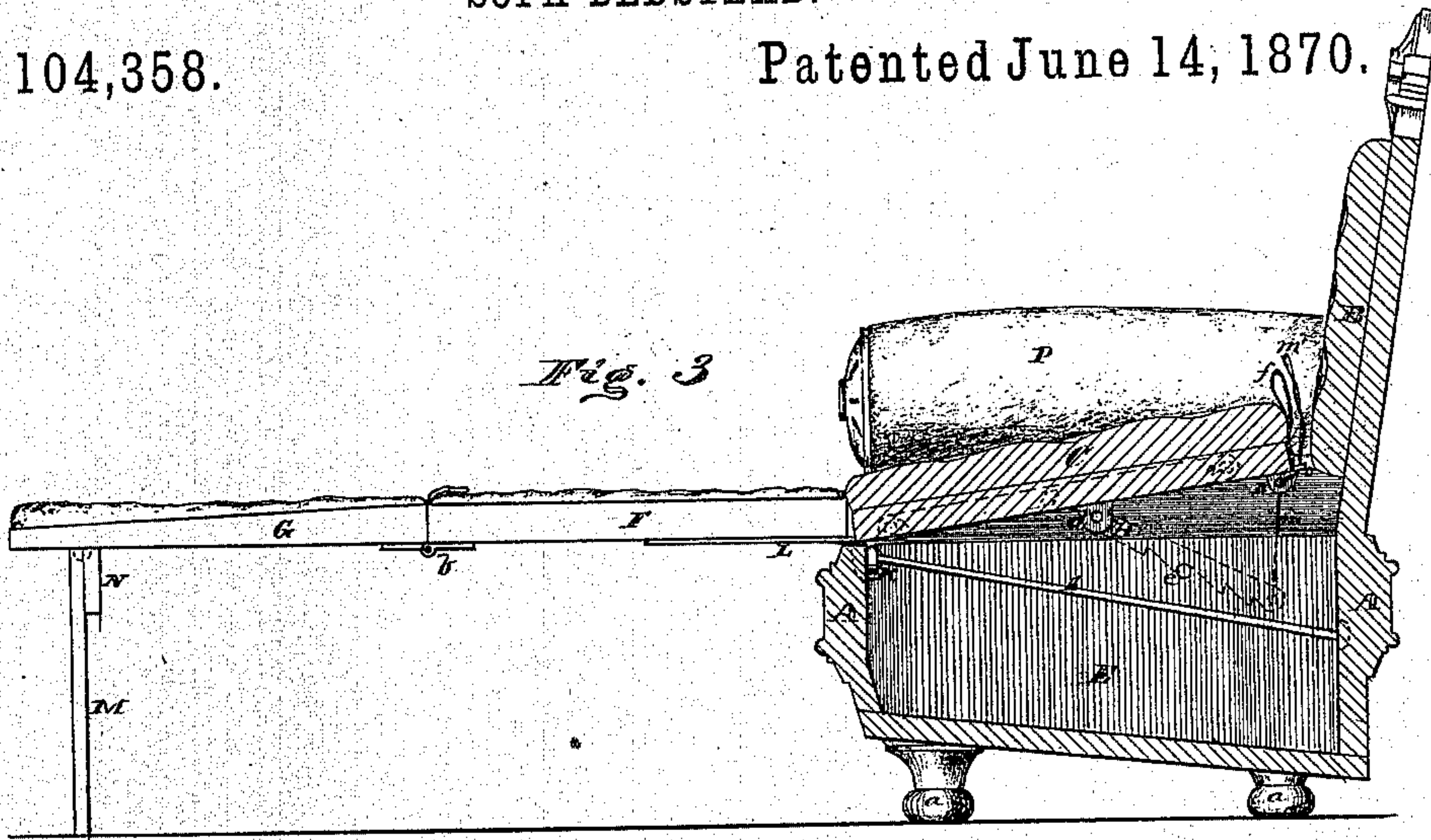
Witnesses
Thos. H. Dodge
H. E. Prince

Inventor
James J. Russ

J. J. RUSS.
SOFA BEDSTEAD.

No. 104,358.

Patented June 14, 1870.



Witnesses

Thos. H. Dodge
A. C. Pierce

Inventor

James J. Russ

United States Patent Office.

JAMES J. RUSS, OF WORCESTER, MASSACHUSETTS.

Letters Patent No. 104,358, dated June 14 1870.

IMPROVED SOFA-BED.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, JAMES J. RUSS, of the city and county of Worcester and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Sofa-Beds; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 represents a front view of my improved sofa-bed;

Figure 2 represents a transverse section of the same, on line A B, fig. 1, when the bed is folded up in the form of a sofa;

Figure 3 represents a transverse section of the same, with the bed unfolded; and

Figure 4 represents a horizontal section or plan view of the lower parts.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it more in detail.

My invention relates to certain improvements in sofa-beds, as will be hereafter explained.

In the drawing the part marked A is the principal frame, B the back, and C the seat.

The frame A is supported upon suitable legs or standards, *a*, and the seat C is attached to the side pieces A' of the frame, by means of hinged bars D, in such a manner that either the front or rear side of the seat may be raised with equal facility.

A case, E, is arranged beneath the frame A, as indicated in the drawing, into which the sections F G are folded, and which also serves as a receptacle for the bedding.

The case E is, in this instance, made somewhat shorter than the frame A, so as to allow space for the bars D and ratcheted supporting-pieces H between the ends of the case E and the end pieces A' of the frame.

Guide-bars or rods, I, are arranged across the frame A, just at the inner sides of the ends of case E. The forward ends of said rods I are secured near the upper edge of the frame, while their rear ends are secured somewhat lower, so that the rods pass diagonally across the case from the front to rear, as indicated in figs. 2 and 3.

The rear corners of the bed-section F are connected by means of hinges L, to slides K, which latter are arranged to move back and forth upon the rods I, while to the front of section F is attached the section G, by means of the hinges *b*, all of which is fully indicated in the drawing.

Hinged to the under side of section G is a pair of legs or standards, M, for supporting the foot of the bed when it is unfolded. These legs M can be folded back upon the under side of the section G when not in use, as shown in fig. 2, and, when the bed is opened

for use, they may be swung out to the position shown in fig. 3.

A cross-bar or transom, N, is, in this instance, arranged across the upper ends of the legs M, from one to the other, to brace and stiffen them.

Attached to each end of the seat C, at a point somewhat in rear of its center, there is a ratcheted supporting-bar, H, by means of which the seat may be held at any desired degree of elevation.

The ratcheted bars H are pivoted loosely to ear-pieces, *d*, secured on the lower side of the seat C, and are caused, by their own weight, to rest upon the pins *e*, arranged between the ends of the case E and end pieces A' of the frame, and, when the rear part of the seat C is raised, the ratchets, catching upon the pins *e*, hold the rear part of the seat in an elevated position.

A loop, *f*, is secured to the rear part of the seat, to facilitate the raising of it when desired.

The ratchet-bars H can be raised to release their hold upon the pins *e* by means of the cord *m*, the ends of which are attached to the rear ends of said bars.

Cord *m* passes through eyes *n*, at the rear corners of the seat, and through an eye, *o*, at the rear center thereof, where it is provided with a hand-loop, *m'*, by means of which the rear ends of the bars H can be lifted from the pins *e* for lowering the seat C, as before stated.

The bed-sections F and G may be provided with mattresses, or they may be upholstered with springs, or in any other suitable manner.

The arms P and back B may be made in any desired form, and ornamented and upholstered to suit the taste. The bed is, in this instance, made in the form of a sofa, but it may, if preferred, be made in the form of a lounge.

The operation of my improved sofa-bed is as follows:

When the bed is folded to be used as a sofa, (the parts being in position, as shown in figs. 2 and 4,) and it is desired to unfold it, the operator takes hold of the front edge of the seat C and tips it up against the back B, thus causing the seat to swing on the points *w*, at the rear ends of the hinged bars D, while its rear edge rests upon the end pieces of the case E, and is supported in an upright position, thereby allowing free access to the case E.

The operator then takes hold of the loops *s*, attached to the front edge of section F, and turns the sections F and G up against the under side of the seat C. The slides K, at the same time, move along the rods I far enough to admit of the operation.

The sections F and G are allowed to remain in this position while the operator removes the bedding from the lower part of the case E, after which the lower edge of the section F is raised, which allows the legs M to swing down, when the operator draws forward

the section so as to straighten the hinge *b*, and move the slides *K* up against the front part of the frame *A*, as shown in fig. 4. The seat *C* is then let down to its former position, and the operation is completed.

If it is desired to have the head of the bed above the level of the other portions, the rear part of the seat is raised in the manner before described, the seat swinging on the pivots *x*, in the front ends of the bars *D*, thereby arranging the parts as shown in fig. 3. To refold the bed, the operation is reversed.

From the foregoing description, it will be seen that my improved sofa-bed contains many advantages of practical value. It is very compact in form and of graceful proportions, so as to be pleasing to the eye. It is simple in construction and not liable to get out of order, and, besides, it can be very easily folded and unfolded by a child of ten or twelve years of age.

Having described my improved sofa-bed,

What I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

1. The combination, with frame *A* and seat *C*, of the double hinge bars *D*, arranged substantially as and for the purposes set forth.

2. The combination, with the double hinged seat *C* and frame *A*, of the ratcheted supporting-bars *H* and pins *e*, substantially as and for the purposes set forth.

3. The combination, with the frame *A*, inclined guide-bars *I*, and slides *K*, of the hinged bed-sections *F* and *G*, substantially as and for the purposes set forth.

4. The combination and relative arrangement, with frame *A*, of seat *C*, double hinge bars *D*, ratcheted supporting-bars *H*, inclined guide-rods or bars *I*, and hinged bed-sections *F* and *G*, substantially as and for the purposes set forth.

JAMES J. RUSS.

Witnesses:

THOS. H. DODGE,

A. E. PEIRCE.