

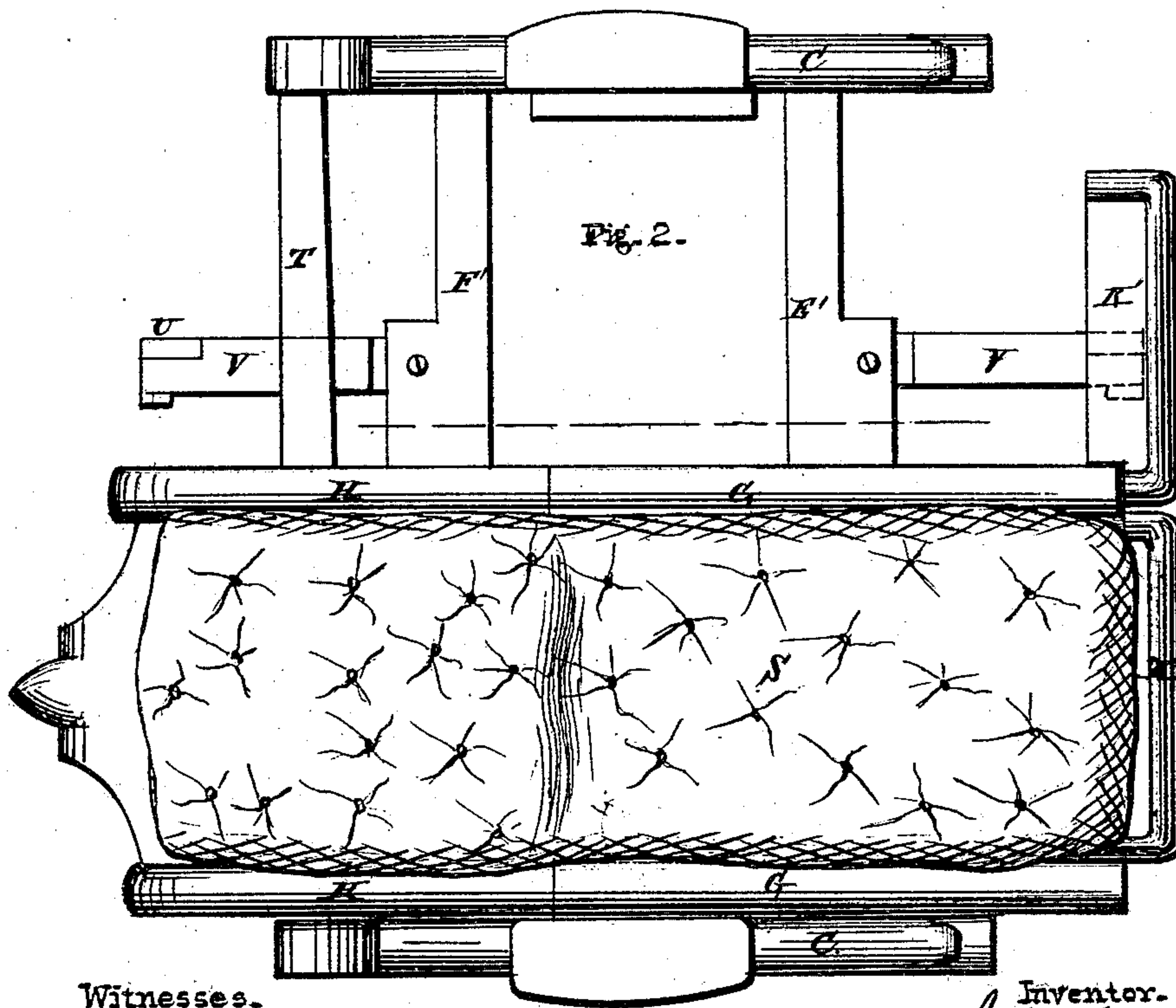
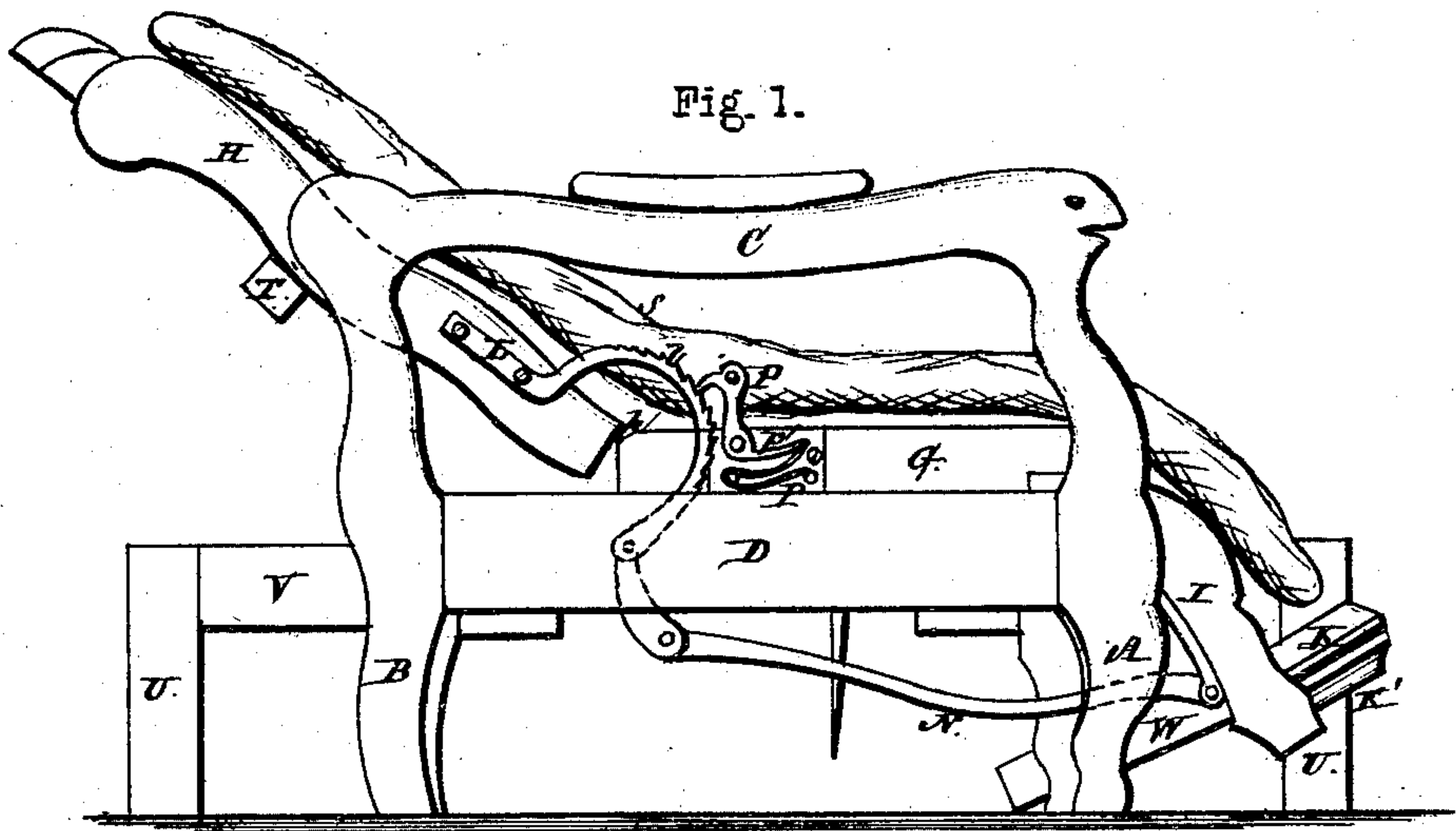
J. Dunn.

2. Sheets. Sheet. 1.

Invalid Chair.

No. 98,934.

Patented Jan. 18. 1870.



Witnesses.

*Adelbert*  
*Amos*

Inventor.

*John Dunn*  
*by Prindle & Ayer*  
Atty's.

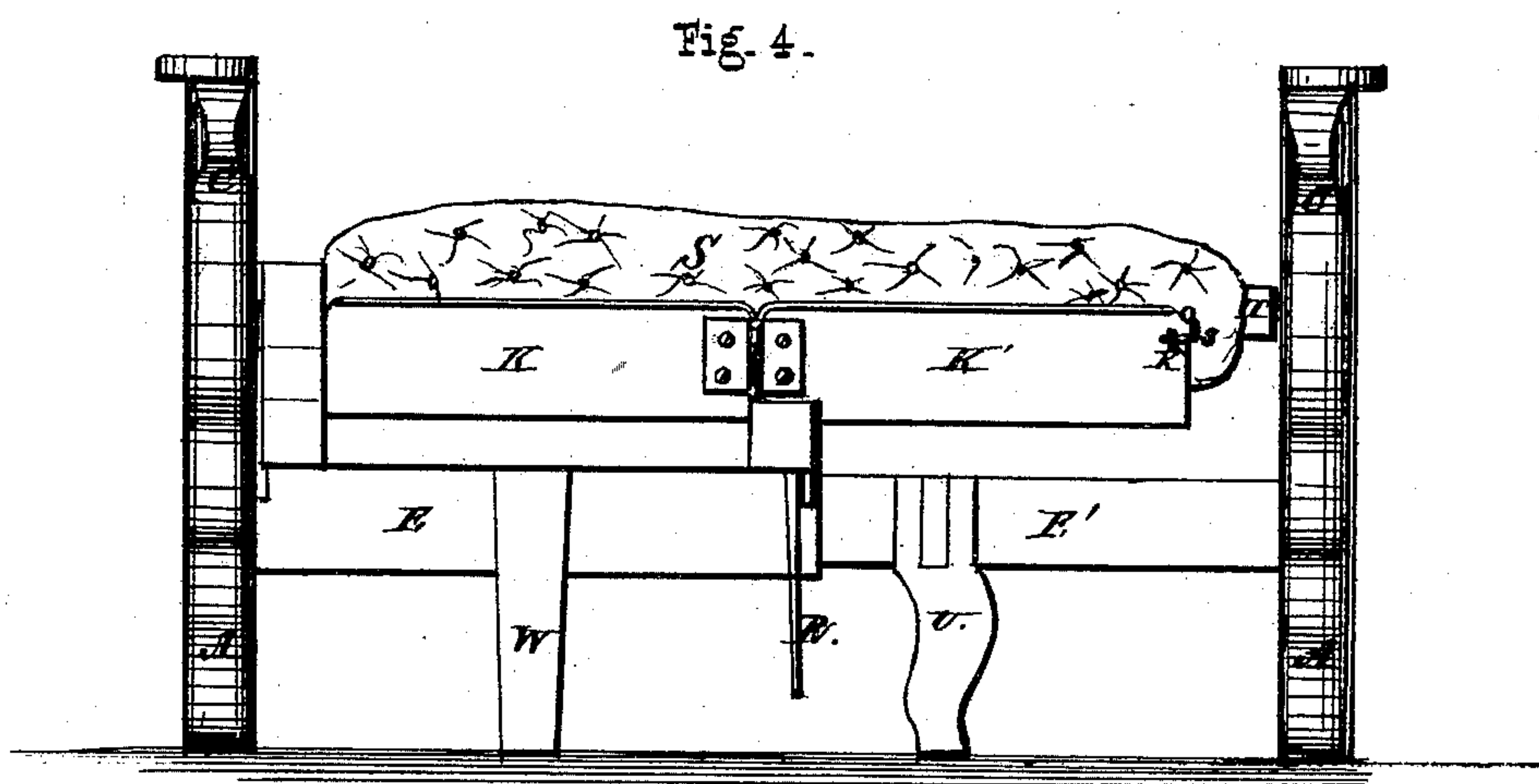
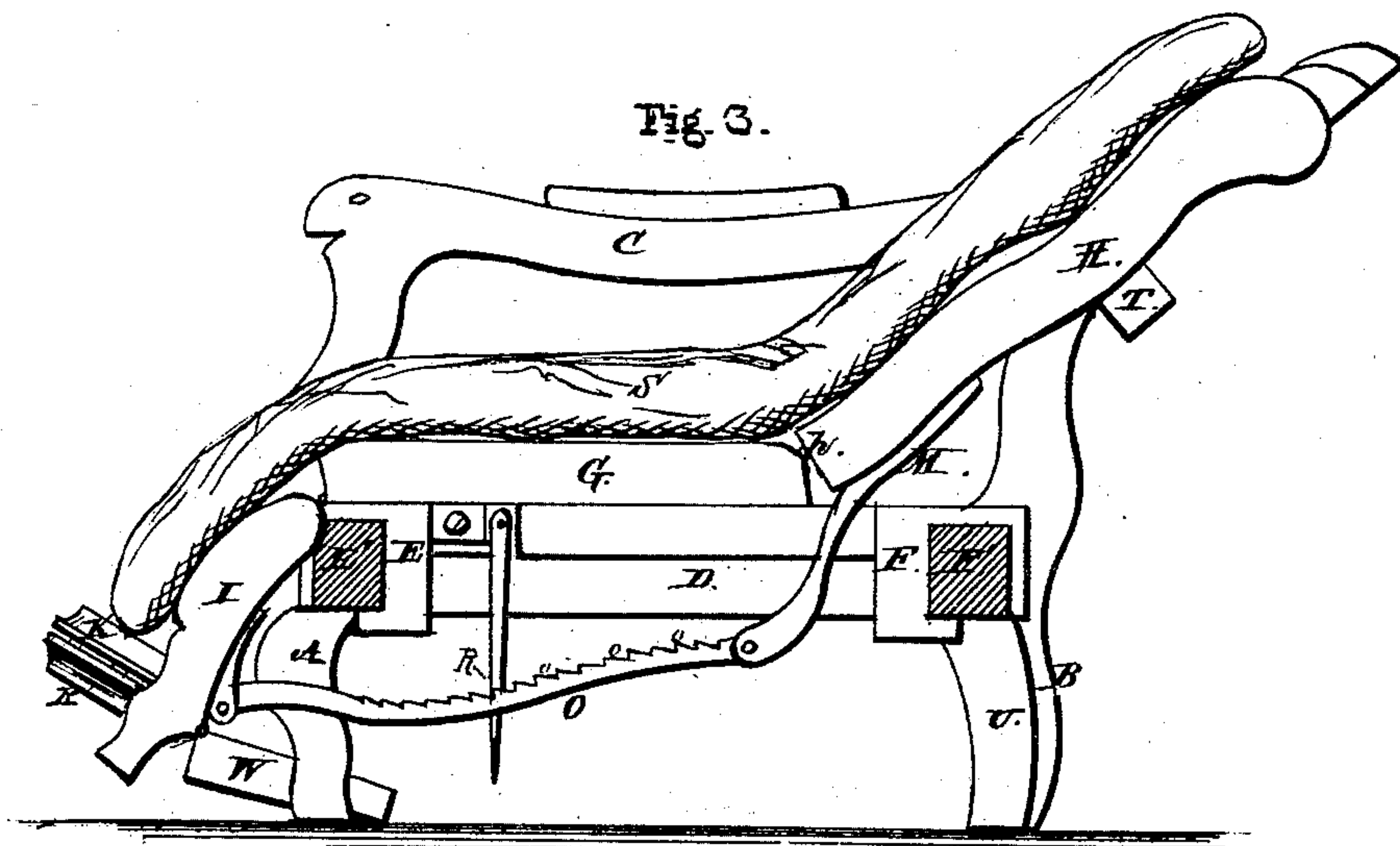
J. Dunn,

2. Sheets. Sheet 2.

Invalid Chair.

No. 98,934.

Patented Jan. 18. 1870.



Witnesses.

*W. S. Mearns*  
*Saml. J. Marr*

Inventor.

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# United States Patent Office.

JOHN DUNN, OF CHARLESTOWN, MASSACHUSETTS, ASSIGNOR TO HIMSELF  
AND JONATHAN STONE, OF SAME PLACE.

*Letters Patent No. 98,934, dated January 18, 1870.*

## IMPROVED RECLINING AND EXTENSION-CHAIR.

*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, JOHN DUNN, of Charlestown, in the county of Middlesex, and in the State of Massachusetts, have invented certain new and useful Improvements in Reclining and Extension-Chairs; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side elevation of my improved device;

Figure 2 is a plan view of the same with the frame extended;

Figure 3 is a sectional side elevation on the line  $x x$  of fig. 1; and

Figure 4 is a front elevation of the device as arranged for a couch.

Letters of like name and kind refer to like parts in each of the figures.

My invention has for its object the production of a convenient and durable reclining and extension-chair; and to this end

It consists, principally, in the means employed for adjusting to, and securing in position, the back and the foot-board of the chair, as is hereinafter specified.

It further consists in the construction and arrangement of the extension-frame, and of the various supports and braces connected therewith, as is hereinafter set forth.

It finally consists in the general construction and arrangement of the various parts of the whole device.

In the annexed drawing—

A and B represent the front and rear legs, respectively, of the chair, connected together at their upper ends by means of the arm C, and at their middle, lengthwise, by means of the side-rail D.

The front and back rails E and F, respectively, are connected rigidly to the right-hand legs, and, being each provided with suitable longitudinal grooves, serve as sheaths for and contain other rails, E' and F', which are connected to the left-hand legs, by which means the frame may be extended laterally to about twice its ordinary width.

The seat of the chair is composed of two side-pieces, G, connected together at their ends by means of suitable cross-bars, and the whole firmly secured to or upon the front and back rails E and F.

Hinged at its lower end to the rear side of the seat is the back, H, of usual form, while the drop I, supporting the foot-board K, is hinged at its upper end to the front edge of said seat.

Secured to and extending downward from either edge of the back H, are two arms, L and M, having pivoted to their lower ends the rear ends of two bars, N and O, the front ends of the latter of which are in turn pivoted to the lower part of the drop I, so that if

said back be depressed or elevated, a corresponding motion of said drop will be produced.

In order that the back and the drop may be secured in position, when adjusted to the desired angle, the arm L is curved forward, downward, and to the rear, so that its front edge shall form the arc of a circle,  $l$ , of which the hinge  $h$  is the centre, and upon said circular portion is provided a series of angular teeth, with which a pawl, P, pivoted upon the side-piece G, is made to engage, by means of a spring,  $p$ , bearing against an arm,  $p'$ , extending forward from said pawl.

A like result is obtained by means of a pawl, R, pivoted upon the opposite side of the seat, and engaging with a series of teeth,  $o$ , upon the upper edge of the pivoted bar O.

The covering or cushion S upon the back, seat, and drop, is made double, and so attached as to permit of its being opened outward to twice its ordinary width, and thus enable it to fill the space between the arms when the frame is extended.

When thus arranged, the upper portion of the additional width of cushion is supported by means of an arm, T, pivoted at one end to the back H, so as to swing horizontally outward beneath said cushion, while its lower end is supported by means of an additional foot-board, K', hinged at one end to the before-named foot-board K, so as to fold underneath the latter when not in use.

A hook,  $s$ , pivoted to the inner frame-work of the cushion, and engaging with an eye,  $k$ , attached to the lower side of the foot-board K', near its outer end, serves to lock said cushion and foot-board firmly together, when desired.

When extended and used for a couch, additional support is required for the ends of the extended cushion, and is furnished by means of two legs, U, each attached at its upper ends to the outer end of a bar, V, the inner end of which is pivoted to the front or rear rails E' and F', so as to permit said legs to be swung outward when in use, or at other times folded back into a suitable recess within said rails.

The foot-board K and drop I are also supported by means of a supplementary leg, W, hinged to and extending downward from the latter, when occupying a horizontal position.

As thus constructed, the device is complete, and capable of use as a single or double reclining-chair or couch, and from the simplicity and strength of its parts, and the ease with which it is operated, great durability and efficiency are secured.

Having thus fully set forth the nature and merits of my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The semicircular-shaped arm L, provided with the

ratchet-teeth, and engaging with the pawl P, in combination with the back H, the drop I, and the pivoted bar N, substantially as shown and for the purpose specified.

Also, in combination with the above, the arm M, the pivoted toothed bar O, and the pawl R, substantially as and for the purpose shown.

Also, the means employed for extending the frame laterally, and for supporting the cushion, consisting of the rails E E' F and F', the arm T, the hinged foot-board K', the swinging legs U, and the hinged sup-

plementary leg W, all constructed and arranged substantially as shown and for the purpose set forth.

Also, the general construction and arrangement of the various parts of the hereinbefore-described device, substantially as and for the purpose specified.

In testimony that I claim the foregoing, I have hereunto set my hand and seal, this 21st day of December, 1869.

Witnesses:

JOHN DUNN. [L. s.]

AMOS STONE,  
ALLEN FRISBEE.