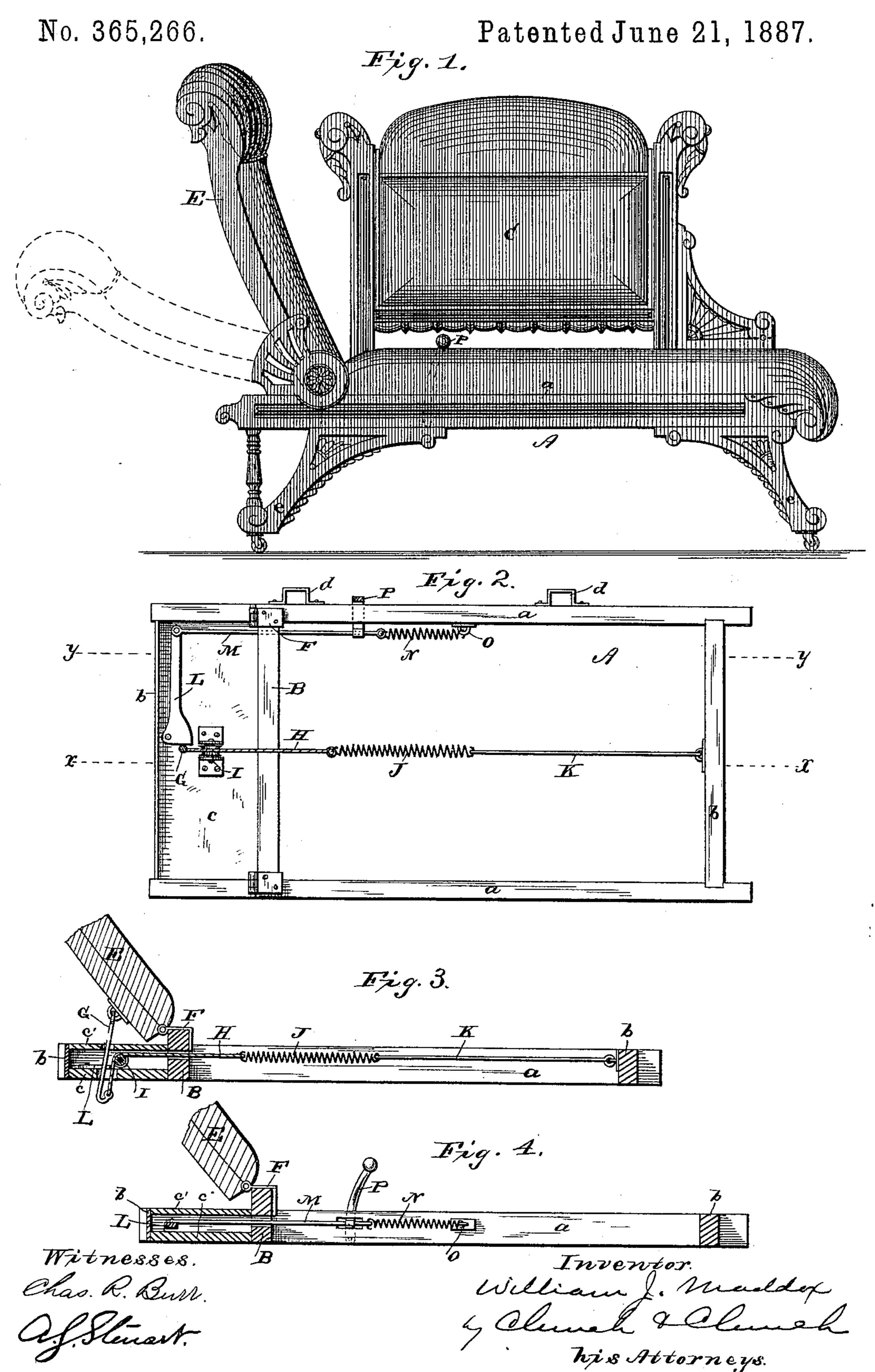
(No Model.)

W. J. MADDOX. RECLINING SOFA OR DIVAN.



United States Paten's Office.

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RECLINING SOFA OR DIVAN.

SPECIFICATION forming part of Letters Patent No. 365, 266, dated June 21, 1887.

Application filed July 24, 1886. Serial No. 208,981. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. MADDOX, of Scranton, in the county of Lackawanna and State of Pennsylvania, have invented certain 5 new and useful Improvements in Reclining Sofas or Divans; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this 10 specification, and to the figures and letters of reference marked thereon.

My present invention relates to improvements in reclining sofas or lounges; and it has for its object to provide a lounge having a 15 head-section adapted to be adjusted to any desired angle relative to the main portion, so that the occupant can recline at any angle or lie horizontal, if desired; and it consists in suitable devices for supporting the head-section, 20 so as to render it easily adjustable to any angle and automatically locked in such adjusted position; and it further consists in certain novel details of construction and combinations of parts, hereinafter described, and pointed out 25 particularly in the claims at the end of this specification.

In the drawings, Figure 1 is a front elevation of a lounge constructed in accordance with my invention. Fig. 2 is a bottom plan view 30 of the same. Fig. 3 is a horizontal sectional view on the line xx of Fig. 2. Fig. 4 is a sectional view on the line y y of Fig. 2.

Similar letters of reference in the several

figures indicate the same parts. A represents the main frame of the lounge, consisting of the horizontal side timbers, a a, the end timbers, b b, and the cross-timber B, near the head, the whole supported upon the legs or standards e e. The frame is uphol-40 stered on its upper side in the usual manner, as shown, except the portion between the timber B and the end of the sides, which is provided with a covering or casing, cc', for the portion of the operative parts of the lounge. 45 C is the back of the lounge, preferably provided on its lower side with the standards adapted to fit into sockets dd, applied to the

E represents the head-section hinged to the 50 cross-timber B in any suitable manner by

rear side of the main frame, as shown.

I with the portion A. To the under side of the section E, a short distance from its inner end, is pivoted a rod or link, G, extending downward and projecting through the casing c c', 55 where it is connected with a cord or chain, H, which latter passes up parallel with the link and over a pulley, I, secured to the lower timber, c, of the casing, thence through the timber B into the main frame, where it is con- 60 nected to one end of a spiral or other suitable spring, J, the other end of which is connected to the foot-rail b by means of a rod or link connection, K. The tendency of this spring is to contract, draw upon the end H, and raise the 65 hinged section E to vertical position through the link G, and it will be seen that the angle that section E maintains relative to the main portion A can be varied by exerting more or less pressure upon it against the tension of the 70 spring. Thus an elastic spring head section is provided which will adjust itself to the varying weights applied to it.

In order to secure the section in the position to which it is adjusted, I provide an auto- 75 matic fastening device, now about to be described.

Preferably within the casing c is pivoted a cam-lever, L, extending across to the rear side of the main frame and connected at its 80 outer or longer end by a link or rod, M, with one end of a spring, N, the other end of the latter being secured to the main frame, preferably by staples O, as shown. The inner end of the cam-lever L abuts against the rod or 85 link G, supporting the head-section E, and the spring N, pulling upon the outer end of the lever, holds it tightly pressed in contact therewith, the friction between the rod and lever preventing the motion of the former up or so down until released. If desired, the surface of the rod may be roughened or provided with a series of notches, to afford a firmer grip of the lever upon it; but ordinarily I prefer to employ a smooth rod and rely upon the friction 95 between the rod and lever, the latter having such a long leverage that great power can be obtained and the rod held securely.

As a means for conveniently releasing the cam lever and adjusting the angle of the head-100 piece, I provide a lever, P, within convenient hinges F F, and upholstered to correspond | reach of the reclining operator, pivoted to the

frame and secured to the rod M, as shown, so that by a movement of this lever the rod can be moved against the tension of the spring, moving the end of the lever out of engagement with the rod G and permitting the spring J to raise the section or the latter to be adjusted, as desired.

From the above the operations of the device will be at once apparent. When desired 10 to adjust the head-section, it is only necessary to move the lever P toward the head, moving the cam-lever, releasing the rod G, and permitting the spring J to raise it to the desired position, or to be depressed against the tension 15 of the spring, then releasing the lever P, when the spring N will retain it in normal position, causing the cam-lever to clamp and hold the rod G, as before. It is obvious that various modifications of the invention can be devised 20 without departing from the spirit of my invention—as, for instance, compression or torsional springs might be used in place of the ones shown, and also the connection between the springs and the movable section and the 25 cam-lever might be varied, if desired. It will also be noted that the head or movable section is pivoted some distance back of the end of the lounge and ferward supporting-legs, so that any weight applied to the head section 30 tending to tilt or upset the lounge must be very great in order to do so.

While my improved adjusting device is especially adapted to be applied to lounges, it can as well be applied to reclining or surgical chairs without any essential alteration.

The device is simple, easily operated, and can be manufactured much cheaper than the reclining lounges or chairs now in use.

Having thus described my invention, what I claim as new is—

1. The combination, with the main frame, of the head-section pivoted thereto, the link, a spring operating to raise the pivoted section, the cam-lever for engaging the link and locking it in position, and the spring operating to hold the cam-lever in engagement with the link, substantially as described.

2. The combination, with the main frame, of

the head-section pivoted thereto, the link, a spring operating to raise the pivoted section, 50 the cam-lever for engaging the link and locking it in position, the spring operating to hold the cam-lever in engagement with the link, and the lever for withdrawing the cam-lever from engagement against the tension of the spring, 55 substantially as described.

3. The combination, with the main frame and the head-section, of the link, the cord connected thereto, the pulley, and the spring, substantially as described.

4. The combination, with the main frame, of the head-section pivoted thereto, the link connected to the head-section, a spring operating to raise the link and through it the head-section, and the cam-locking device operating directly upon the link to secure it in position, substantially as described.

5. The combination, with the main frame, of the head section pivoted thereto, the link connected to the head section, the cord connected 70 to the link and passing over the pulley, and the spring connected to the cord and to the main frame operating to draw upon the cord, raise the link, and through it the head-section, and a locking device mounted upon the 75 main frame for securing the head portion in the desired position, substantially as described.

6. The combination, with the main frame, of the head section pivoted thereto, the link connected to the head-section, the cord connected 80 to the link and passing over the pulley, and the spring connected to the cord and to the main frame, and a locking device mounted upon the main frame and operating directly upon the link to secure the head-section in desired position, substantially as described.

7. In a reclining sofa or lounge, the combination, with the main frame supported upon the legs, of the head-section pivoted to the main frame at a point within the supporting-leg 90 base of the lounge, substantially as described.

WILLIAM J. MADDOX.

Witnesses:

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