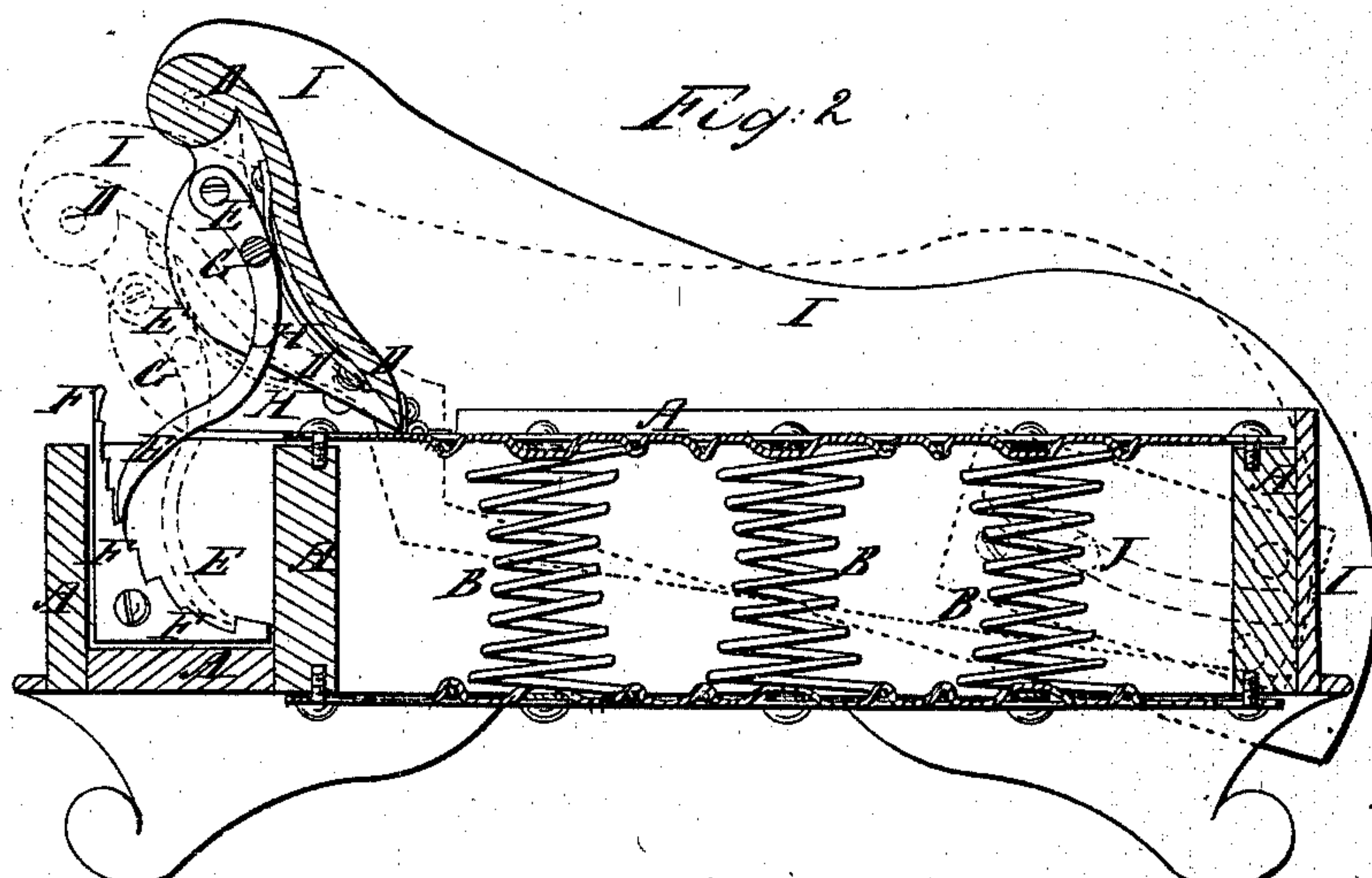
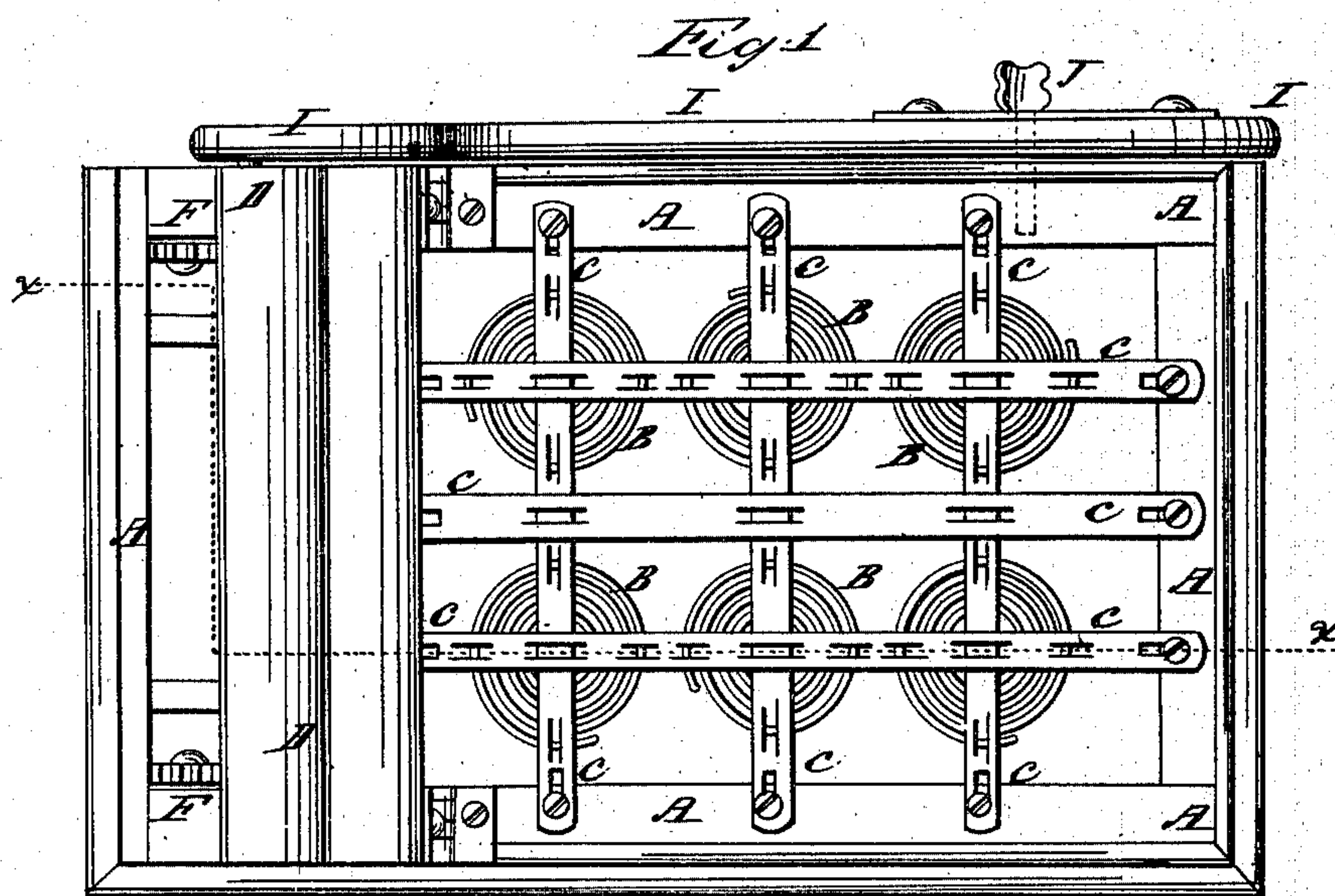


C. Martino,
Sofa Bedstead,

Nº 69,006,

Patented Sept. 17, 1867.



Witnesses
Thos Tusch
Wm Dean Overell

Inventor
C. Martino
Per Almond

United States Patent Office.

CASPER MARTINO, OF TRENTON, NEW JERSEY.

Letters Patent No. 69,006, dated September 17, 1867.

IMPROVED SOFA AND BED-BOTTOM.

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, CASPER MARTINO, of Trenton, in the county of Mercer, and State of New Jersey, have invented a new and useful improvement in Lounges, Sofas, Bed-Bottoms, Chairs, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a top-view of a lounge, illustrating my improvement.

Figure 2 is a detail sectional view of the same, taken through the line *x x*, fig. 1, showing in black lines the head part raised, and in red lines the same lowered.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish a neat, convenient, secure, and reliable means of securing coiled wire springs in position in lounges, sofas, chairs, bed-bottoms, &c., and for raising and lowering a movable part of such articles; and it consists in securing the spiral springs in proper position by metallic straps, or by the insertion of metal guards for securing the ends of the springs in any straps that may be used, having loops struck up out of their solid bodies, for the reception of the end coil of the springs, and in the combination of the ratchet, pawls, and spring with the movable part and with the frame of the lounge, chair, or bed-bottom, the whole being constructed and arranged as hereinafter more fully described.

A is the frame of the lounge, and B are the spiral or coiled wire springs, about the construction of which parts there is nothing new. C are narrow straps, made of any suitable metal. The straps C have loops formed in them by cutting two parallel slits, of suitable length and at the proper places, and then striking up the narrow strip of metal between said slits so as to form the loops. The two operations of cutting the slits and forming the loops may be performed at the same time by using a properly formed tool. The ends of the straps C rest in grooves or channels formed in the upper edges of the frame A, and are kept in place by screws passing through slots formed in the ends of said straps, to allow them to move slightly back and forth as the springs B are operated. The straps C are secured to each other, at the points where they cross each other, by forming a loop in the one strap and passing the other strap through it, as shown in figs. 1 and 2. The springs B are secured to the straps C by passing the end coil of the spring through the loops formed in said straps, as shown in figs. 1 and 2. The ends of the wires may then be bent down, which both prevents the said wires from being again drawn out and from tearing or wearing the covering of the springs. If desired, the ends of the springs may be secured in place by cross-wires extending across the frame longitudinally and laterally, so as to form bands, and to which the ends of the springs are attached; or by wires bent or curved so as to form loops for the reception of the end coils of the springs; or by bands of sacking, having metal guards attached to them, by which the ends of the springs may be secured. In some articles, such as chairs, both ends of the springs should be secured to sets of straps C in the manner described, but in other articles, such as lounges, bed-bottoms, &c., it will be sufficient to secure the upper ends of the springs in this manner, their lower ends resting upon and being secured to wooden bottom-boards or slats.

D is the head or movable part of the lounge, the lower edge of which is hinged to the frame A, as shown in fig. 1. E are two pawls, (one of which is shown in fig. 2,) which are pivoted to the end pieces of the said movable part D. The lower ends of the pawls take hold of the teeth of the ratchets F, and hold the head or movable part steady in any position to which it may be raised. The edge of the ratchets F upon which the teeth are formed is made curved, as shown in fig. 1, so as to accommodate the position of the teeth to the varying position of the pawls E as the part D is raised and lowered. The two pawls E are connected to each other by the connecting-rod or bar G, so that they may move together. H is a spring, attached to the rear side of the movable part D in such a position as to press outward against the connecting-bar G, and hold the pawls E forward against the teeth of the ratchets F.

The movable part D may be lowered at any time, and any desired amount, by compressing the spring H and drawing the pawls E away from the teeth of the ratchets F. This may be done from the upper side of the lounge, bed, or chair, by attaching one end of a short cord to the connecting-rod G, passing the other end up

through the movable part D, and attaching to it a tassel, tuft, or button, according to the manner in which the article is upholstered.

I is the back of the lounge, the head end of which is pivoted to the top part of the movable part D, and the lower or foot end of which is secured to the frame A by a pin or screw-bolt, J, passing through a curved slot in said back I, as shown in figs. 1 and 2.

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

1. Securing one or both the ends of the spiral springs B in proper position by metallic straps C, having loops struck up out of their solid bodies for the reception of the end coil of the springs, substantially as herein shown and described, and for the purpose set forth.

2. The combination of the ratchets F, pawls E, rod G, and spring H, with the movable part D and with the frame A, substantially as herein shown and described, and for the purpose set forth.

3. Securing the back I to the movable part D and to the frame A, substantially in the manner herein shown and described

CASPER MARTINO.

Witnesses:

WILLIAM VALENTINE,
T. H. LAWRENCE.