

(No Model.)

R. S. JUDSON & F. EDMOND.
SPRING CHAIR BOTTOM.

No. 509,225.

Patented Nov. 21, 1893.

Fig. 1.

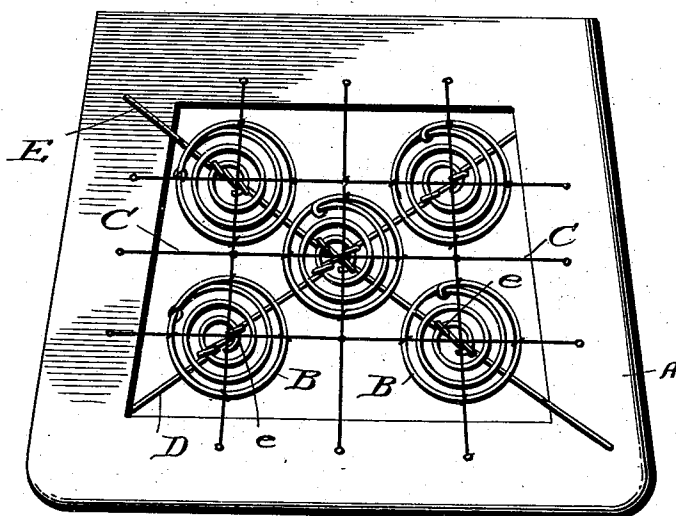


Fig. 2.

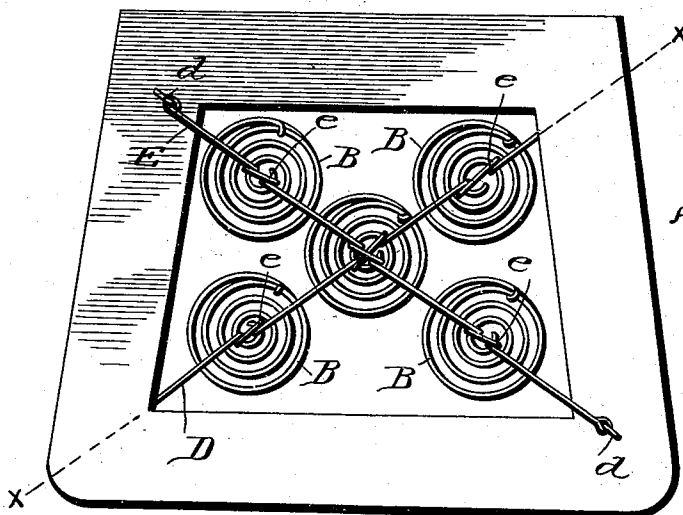
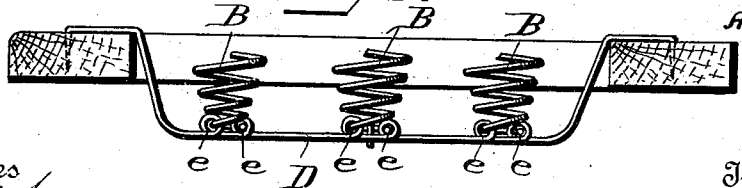


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

ROSWELL S. JUDSON AND FRANK EDMOND, OF MATTEAWAN, NEW YORK;
SAID EDMOND ASSIGNOR TO EMMA EDMOND, OF SAME PLACE.

SPRING CHAIR-BOTTOM.-

SPECIFICATION forming part of Letters Patent No. 509,225, dated November 21, 1893.

Application filed March 17, 1893. Serial No. 466,440. (No model.)

To all whom it may concern:

Be it known that we, ROSWELL S. JUDSON and FRANK EDMOND, citizens of the United States, residing at Matteawan, in the county of Dutchess and State of New York, have invented certain new and useful Improvements in Spring Chair-Bottoms; and we 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.

Our invention relates to spring chair bottoms and is susceptible of application where it is possible to use coil springs.

The object of the invention is to provide a simple and efficient means for attaching the springs to the seat frame and holding them in fixed relation so that the relative distance between the springs and the seat frame will be preserved at all times, thereby obtaining a spring seat which will not be liable to give way at any one place by reason of the spring or springs slipping from a normal position.

The improvement consists of the novel features and the peculiar construction and combination of the parts which will be hereinafter more fully described and claimed and which are shown in the annexed drawings, in which—

Figure 1 is a top plan view of a chair bottom embodying our invention. Fig. 2 is a bottom plan view of the spring seat. Fig. 3 is a section on the line X—X of Fig. 2, showing the manner of connecting supporting wires with the lower ends of the springs, the upper portions of the springs being broken away.

The seat frame A is of ordinary construction and is provided on its bottom side with crossing wires D and E which form a support for the springs B. These wires D and E may be secured at their ends to staples or screw eyes *d* on the under side of the seat frame, or may have their ends bent upward and extended over and driven into the top side of the seat frame, as shown most clearly in Fig. 3. These cross wires are provided with pairs of loops or eyes *e* at proper intervals to en-

gage with the lower coils of the springs B at diametrically opposite points. These loops or eyes *e* are formed by coils in the wire.

The coil springs B are of usual construction, being tapering and set with their smaller ends supported upon the wires D and E. The upper ends of the springs are connected together and to the seat frame by a net work of cords C in the usual manner. For seat bottoms five springs are usually employed, four being located in the angles and one in the center. The center spring will be connected with the wires D and E at the point of crossing and serves as a lock to prevent the wires from slipping the one on the other.

It will be understood that the invention with slight modification can be adapted for beds, lounges and other places where it is desired to use coil springs.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. The combination with a frame, and a series of coil springs, of cross wires for supporting the said springs secured at their ends to the said frame and having pairs of loops to receive opposite portions of the lower coils of the springs, each wire having a pair of loops at the point of crossing which loops are engaged by and embrace the lower coil of the centrally disposed spring to form a lock, substantially as set forth.

2. The combination with a frame and a series of coil springs, of crossed wires secured at their ends to the frame, and having pairs of loops to engage and embrace the lower coils of the springs at diametrically opposite points, and a net work of cords connecting the upper ends of the springs together and to the said frame, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

ROSWELL S. JUDSON.
FRANK EDMOND.

Witnesses:

HARRY ODELL,
JOHN COFIELD.