

E. YEOMAN.  
Spring Bed-Bottom.

No. 210,000.

Patented Nov. 19, 1878.

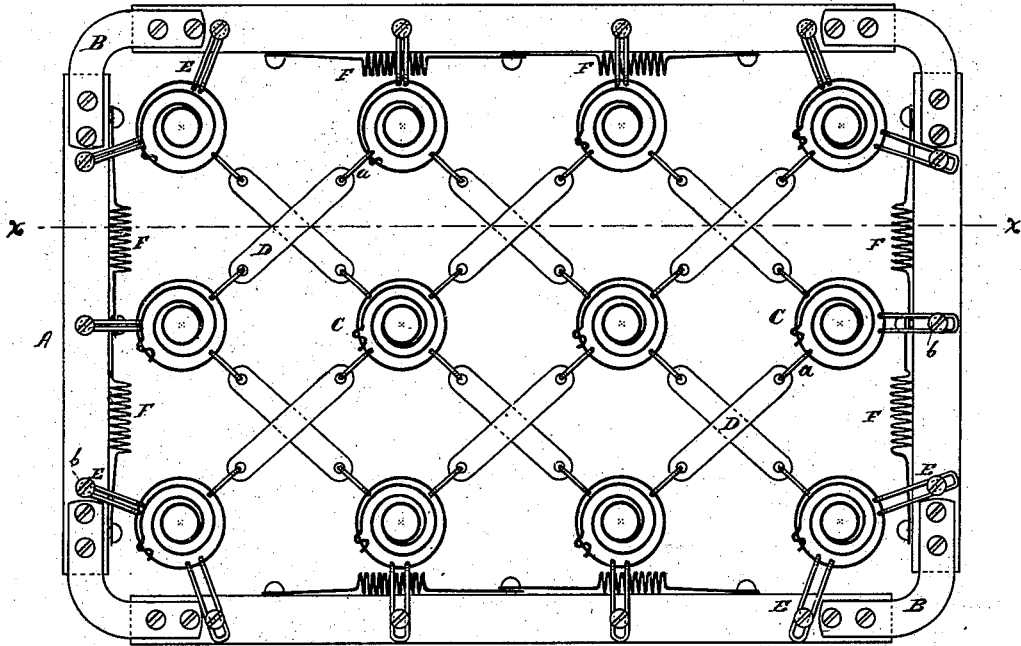


Fig. 1

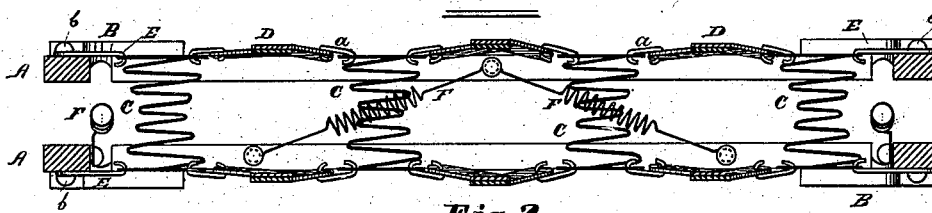


Fig. 2

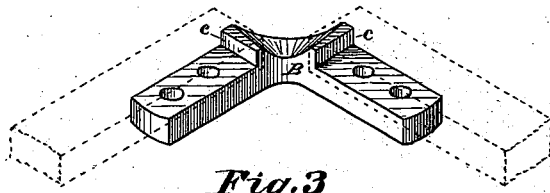


Fig. 3

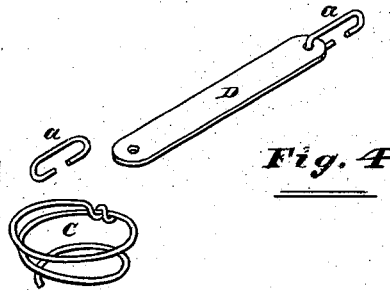


Fig. 4

Attest:

*S. S. Schoff*

INVENTOR:

Edward Yeoman—

By *Boyer & Co.* his —

Attorneys.

# UNITED STATES PATENT OFFICE.

EDWARD YEOMAN, OF CHICAGO, ILLINOIS.

## IMPROVEMENT IN SPRING BED-BOTTOMS.

Specification forming part of Letters Patent No. **210,000**, dated November 19, 1878; application filed February 14, 1878.

*To all whom it may concern:*

Be it known that I, EDWARD YEOMAN, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Spring Bed-Bottoms, of which the following is a specification, reference being had to the accompanying drawing, forming a part hereof, and in which—

Figure 1 is a top view of a bed-bottom embodying my invention; Fig. 2, a section taken at the line *x x*; Fig. 3, a perspective of one of the corner-plates; and Fig. 4, perspective representations, in detail, of the spring-connecting parts.

Like letters of reference indicate like parts.

In the drawing, A represents the frame, consisting of two like and horizontally-arranged frames placed one above the other, the side and end rails of each of which are connected by means of the corner plates or irons B B, the size of the frame being such as to suitably support the bed.

C C are double helical springs, arranged vertically and at regular and considerable intervals from each other. One row of springs is connected to another at the top and bottom by means of the flat parts or links D D, the connection of the springs to the links being made by means of the short double hooks *a a*. The outer rows of springs are connected at the top and bottom to the upper and lower parts of the frame, respectively, by means of the loops or links E E, through the looped ends of which pass the headed screws *b b* or other suitable clamps or fastenings, the screws or fastenings entering the frame.

F F are spiral springs, the upper ends of which are attached to the central part of the side and end rails, respectively, of the upper part of the frame, and, diverging from the point of attachment, they extend downward to the lower part of the frame, to which they are attached; or, instead of being so arranged, they may be attached to the central part of the lower rails and diverge upwardly to the upper rails, the upper and lower parts of the bed-bottom being in other respects the same in all particulars.

The corner plates or irons are rectangular, excepting that they are, by preference, made round-cornered. They are also shouldered, as

shown at *c c*, to meet the ends of the end bars or rails, as shown.

It will be perceived that by connecting the double helical springs by means of the flat links D D a very large, flat, and yielding bed-supporting surface is produced in a simple and cheap manner. The connecting parts may also be applied with facility, and easily removed, if necessary. By clamping the connecting-loops E E to the frame in the manner described the slack may easily be taken up by loosening the screws *b b* for that purpose and setting them down upon the loops when the latter are set to produce a sufficient tension. The springs F F prevent too great lateral movement of one part of the frame with respect to the other without rendering these parts rigid, and the corner-blocks make a very firm fastening for connecting the ends of the rails. The parts D D are, by preference, arranged to cross each other, as shown. It is not essential that the parts D D should be employed in connection with both ends of the springs C C.

It is immaterial whether the lower ends of the springs are connected to each other in the manner described or rest on slats.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The adjustable loops E E, the clamping devices *b b*, the outer rows or series of springs C C, the rails of the frame, and the inner rows of springs, all of the said springs being connected to each other, and all the said parts being combined and arranged substantially as and for the purposes specified.

2. Rectangular corner plates or irons B B, having on their under faces the vertical shoulders *c c*, at right angles to each other, the inner ends of the said shoulders approaching each other, and the upper faces of the said irons extending laterally from the outer faces of the said shoulders, in combination with the side and end rails of a spring bed-bottom, substantially as and for the purposes specified.

EDWARD YEOMAN.

Witnesses:

F. F. WARNER,  
JAMES H. COYNE.

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