(No Model.)

O. S. FOSTER.

ATTACHMENT FOR SPRING BED BOTTOMS.

No. 441,653. Patented Dec. 2, 1890.

FIG. 1.

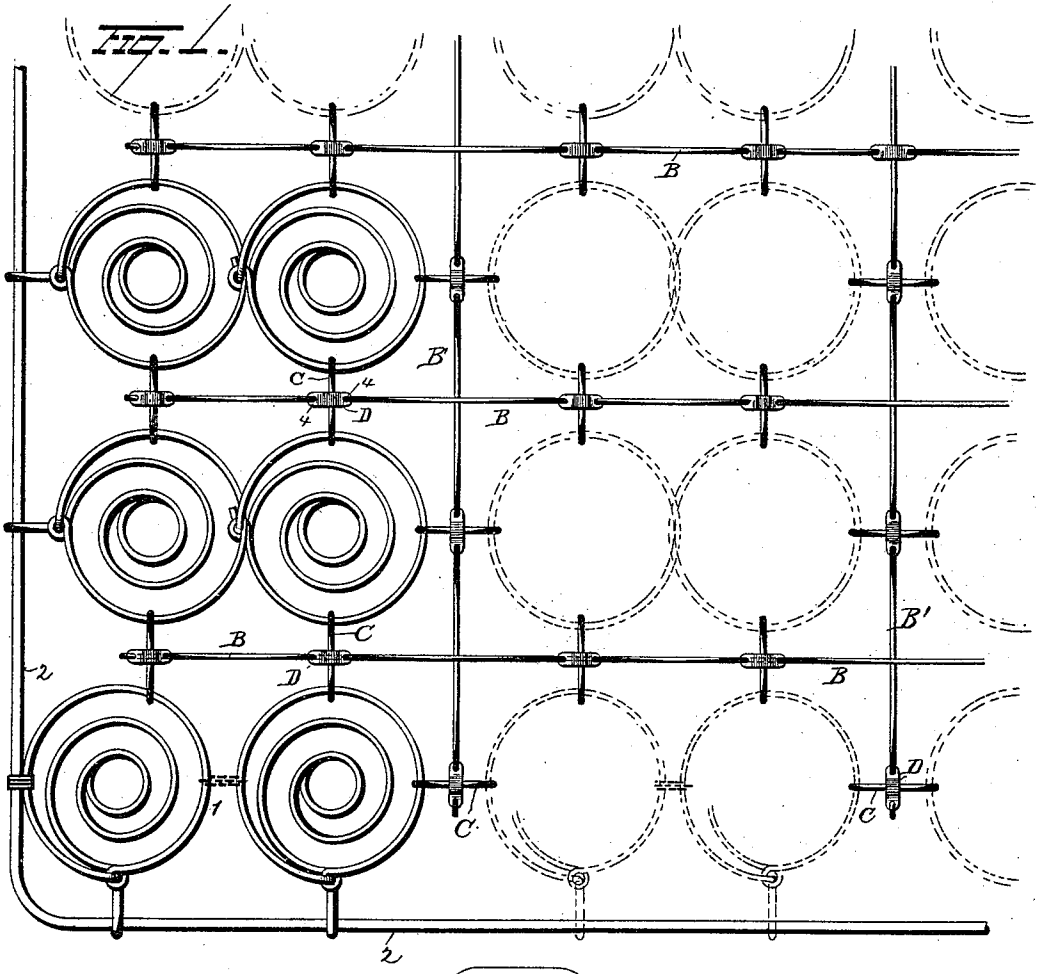




FIG. 2.

FIG. 5.

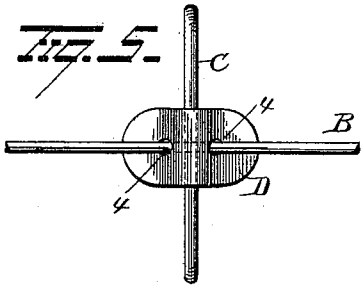




FIG. 4.

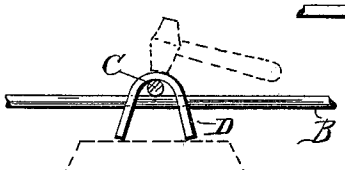


FIG. 3.

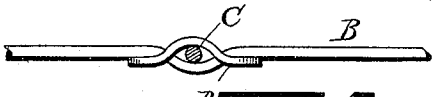


FIG. 6.

Witnesses
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UNITED STATES PATENT OFFICE.

OSCAR S. FOSTER, OF UTICA, NEW YORK.

ATTACHMENT FOR SPRING BED-BOTTOMS.

SPECIFICATION forming part of Letters Patent No. 441,653, dated December 2, 1890.

Application filed June 4, 1890. Serial No. 354,226. (No model.)

To all whom it may concern:

Be it known that I, OSCAR S. FOSTER, of Utica, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Attachments for Spring Bed-Bottoms; and I 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.

My invention relates to an improvement in spring bed-bottoms, the object being to provide a light and yielding bed-bottom of few parts disposed and connected in such a manner that the weight on the bed is sustained alike over the entire surface.

A further object is to provide a bed composed of such parts and arrangement of parts that but little time is lost in putting it together.

With these ends in view my invention consists in certain novel features of construction and combinations of parts, as will be hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a plan view of my improved bed-bottom; and Figs. 2, 3, 4, 5, and 6 are views showing the clip-plates and connecting-wires in different stages of construction.

A A′ represent double cone-springs, preferably arranged in pairs interlocking with each other, except those around the sides of the border, which are in this instance connected by short chains 1 1. The entire set of springs is preferably surrounded at top and bottom with border-wires 2 2, and the border rows of springs may be connected to these wires in any approved manner—as, for instance, after the manner shown by bending the ends of the wire composing the springs around the border-wires.

Transverse and longitudinal connecting-wires B B′ are located between each two rows of springs extending longitudinally of the bed and every double row extending transversely of the bed. These are simply straight wires having short coupling-wires C C, secured crosswise thereon at points between the springs by means of clip-plates D D, whereby the coupling-wires and connecting-wires are held rigidly together and prevented from lateral movement upon each other.

Figs. 2, 3, 4, 5, and 6 illustrate the different shapes that the clips take in the process of joining the longitudinal and transverse wires. The clips are cut from a metal strip in substantially the shape shown in Fig. 2 and then punched. The blank is then bent to the shape shown in Fig. 3, and while in this shape the longitudinal coupling-wires C C are passed through the holes 3 3, and the short connecting-wires C C are passed transversely through the space formed between the center of the clip-plates and the coupling-wires. Then the device is placed on an anvil and hammered, as shown in Fig. 6, the clip-plate being flattened, as shown in Figs. 4 and 5, binding the three parts together. The extreme ends of the coupling-wires C C are finally bent around the clip-plates, as shown in detail in Fig. 5.

It is evident that slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction herein set forth.

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

The combination, with rows of spiral springs, connecting-wires, and transverse wires, of clip-plates, each having holes therein to receive a wire, and a loop formed between the holes to receive and hold a wire approximately at right angles to the wire extending through the holes, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

OSCAR S. FOSTER.

Witnesses:
W. E. SEAREY,
H. D. PITCHER.