I. A. CLIPPINGER.
Bed Bottom Spring.

No. 232,390. Patented Sept. 21, 1880.

Fig. 1.

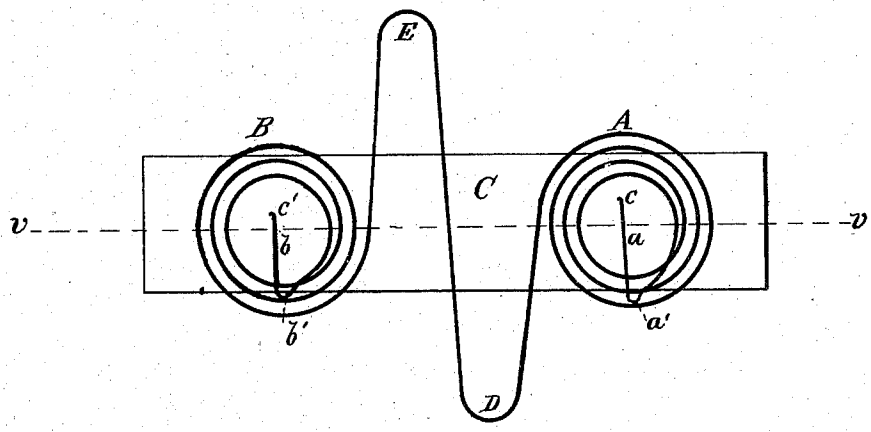


Fig. 2.

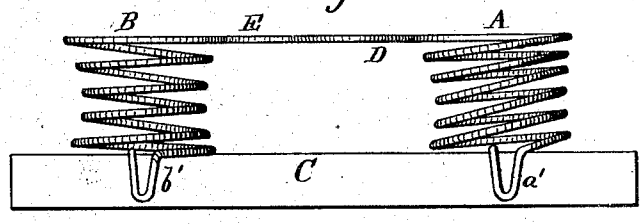
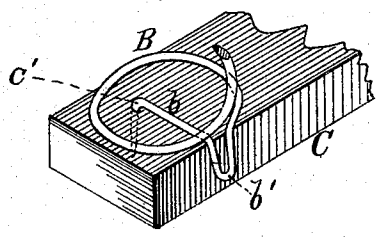


Fig. 3.



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ISAIAH A. CLIPPINGER, OF PLAINFIELD, ILLINOIS, ASSIGNOR TO HIMSELF AND HENRY HENLEY, OF BLOOMINGTON, INDIANA.

BED-BOTTOM SPRING.

SPECIFICATION forming part of Letters Patent No. 232,390, dated September 21, 1880.

Application filed July 24, 1878.

To all whom it may concern:

Be it known that I, ISAIAH A. CLIPPINGER, of Plainfield, in the county of Will and State of Illinois, have invented a new and Improved Bed-Bottom Spring, of which the following is a specification.

The object of my invention is to furnish a new and improved construction of springs for bed-bottoms, and which will facilitate and cheapen their attachment to the supporting-slats of the bed-bottom and the attachment of the springs to each other, to effect continuity of the bearing-surface.

The invention consists in a bed-bottom spring in which the wire of the lower coil is bent down and back again upon itself to its starting-point on one side of the coil, to form a V-shaped leg adapted to clasp the side of the slat, then diametrically across the greater portion of the width of the coil, and down again at a distance short of the end of the said diameter, to form another leg adapted to be driven into the upper surface of the slat. The spring is attached by clasping one of the side edges of the supporting-slat by a V-shaped leg, and driving the other leg into the slat from the upper side of the latter.

It also consists in a bed-bottom spring of two spiral springs formed side by side, of one continuous wire, connecting them together on top, said wire being bent between the springs to form a loop on each side of the line connecting the centers of said springs, to adapt several pairs of springs to be interlooped in rows, as will be hereinafter described.

In the accompanying drawings, Figure 1 represents a top view of a pair of springs forming one of my improved bed-bottom springs. Fig. 2 is a side elevation of the same. Fig. 3 is a detail perspective view, illustrating the mode of attaching the spring to the bed-slat.

Similar letters of reference indicate corresponding parts.

The spring is formed of two spiral springs, A and B, arranged side by side, with their axial lines parallel, and each having the wire of its lowest coil bent down, and the thus projecting leg a' b' bent back again upon itself to its starting-point on one side of the coil to form a V-shaped leg, then diametrically across the greater portion of the width of the coil, and down again at a distance short of the end of the said diameter, to form the other leg, c c'.

The horizontal part a b of the staple is supported across one of the bed-slats C, and its double-bent V-shaped leg a' b' is made to clasp one of the side edges of the slat C by the force of elasticity of the wire, while the other leg, c c', is driven down or inserted into a hole in the wood of the slat, thus supporting the spring upon the latter and securing it in the desired position.

The portion of the wire which connects the top coil of the spiral A with that of spiral B, and keeps the two at the proper distance apart, is bent to form two long horizontal loops, D E, one on each side of the line v v, that portion of the connecting-wire which forms one side of each loop crossing the said lines nearly at right angles, at an equal distance from each coil. These loops D E are for the purpose of interlooping the pairs of springs in rows.

The double spring or pair of springs A B is made out of one continuous wire from the point of the leg c of the spring A to the point c' of the spring B.

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

1. A bed-bottom spring in which the wire of the lower coil is bent to form legs b' c', substantially as shown and described, and attached by clasping one of the side edges of the supporting-slat C by the V-shaped leg b', and driving the other leg, c', into the slat from the upper side of the latter, or inserting it into a hole bored into the slat, substantially as specified.

2. A bed-bottom spring consisting of two spiral springs, A B, formed side by side, of one continuous wire, connecting them together on top, said wire being bent between the springs A B to form a loop, D E, on each side of the line v v, connecting the centers of the said springs A B, to adapt several pairs of springs to be interlooped in rows, substantially as specified.

ISAIAH A. CLIPPINGER.

Witnesses:
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