

(No Model.)

E. W. HUNT.  
Spring Bed Bottom.

No. 236,593.

Patented Jan. 11, 1881.

Fig. 1.

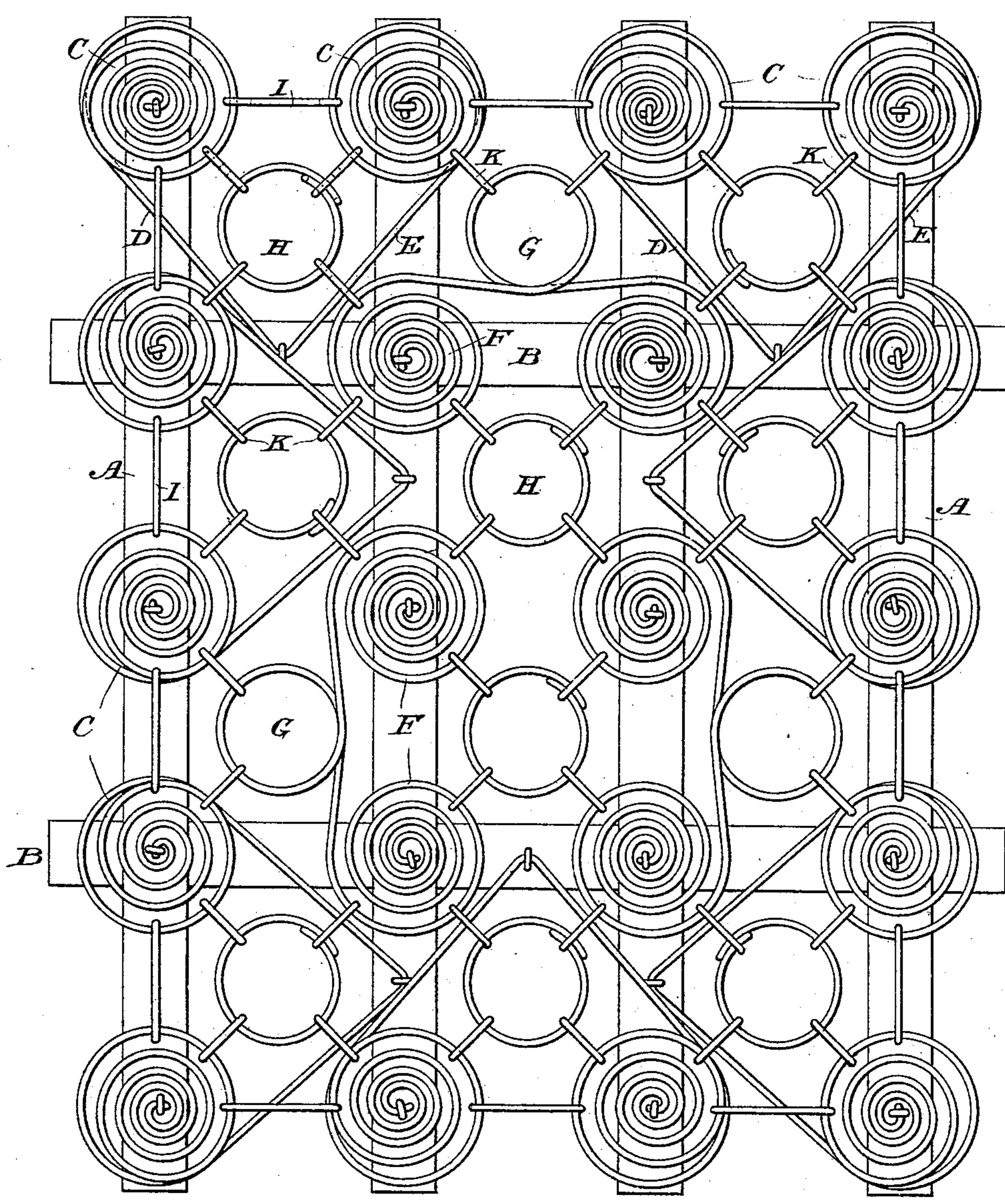


Fig. 2,



WITNESSES

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# UNITED STATES PATENT OFFICE.

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## SPRING BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 236,593, dated January 11, 1881.

Application filed October 16, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD W. HUNT, of Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Coiled-Wire Spring Bed-Bottoms, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of my complete bed-bottom, and Fig. 2 a perspective view of one of the self-adjusting open rings detached.

My improvements relate to that class of coiled-wire spring bed-bottoms composed of coiled-wire springs permanently attached to a wooden frame; and the object of my improvements is to so construct and secure the springs that they shall retain their proper relative positions, and as far as practicable their original resiliency and tension, at all times.

I construct a frame of a series of longitudinal slats, A, secured to two or more transverse slats, B. All of the springs are formed in sets of two, the two springs being coiled from the opposite ends of a single wire, so that they remain connected together by the middle portion of the wire. The springs, in sets of two, which form the outside rows of springs around the margin of the frame, are indicated by the letter C, and the middle portion of the wire from which these springs are formed constitutes the braces D and E for these springs, and is connected firmly to the slats A and B, as illustrated in the drawings. The springs, in sets of two, which fill up the middle portion of the bed-bottom, are indicated by the letter F, and the middle portion of the wire from which these springs are formed constitutes a loop or loop-ring, G, capable of yielding so as to slightly enlarge or diminish the size of the loop under strain. After the strain is removed the resiliency of the loop will cause it to resume its normal size and tension. This construction or form of connected coiled bed-springs, however, I do not claim to be new.

H indicates a single coil of spring-wire, forming a ring, the ends of the wire overlapping each other a short distance and being bent at right angles. In this manner I form a self-

adjusting spring-ring capable of being enlarged or diminished under strain, and then of automatically resuming its original diameter and tension.

I represents links, which connect the adjacent springs in the usual manner, and K represents short links, which connect the springs with the self-adjusting spring-rings, and also connect the springs with the loop-rings G.

By this construction it will be perceived that the exterior springs upon the frame are all braced to the frame firmly by the inclined braces D and E, and that these springs are all connected to the interior springs of the bed-bottom by the yielding connections formed of the links K and ring-loops G and rings H. The result is a very secure fastening of all the springs in place, and at the same time such automatically adjustable connections between them that they are not liable to be tilted out of perpendicular under the strain of a heavy weight upon the bed. Furthermore, the loop-rings and the adjustable rings H serve to fill up the spaces between the tops of the springs in a desirable manner for evenly supporting a bed-tick or mattress.

Having thus described my invention, what I claim as new is—

1. Two coiled springs formed from the opposite ends of a wire, in combination with downward-inclined braces D and E, formed of the central portion of the wire, the whole adapted for attachment to the slats of a bed-bottom, substantially as and for the purpose specified.

2. The self-adjusting spring-ring H, formed from a single coil of spring-wire with its ends overlapping and turned down at right angles, substantially as described.

3. The combination of the exterior sets of braced springs with the interior sets of loop-connected springs, and the spring-rings H and links K, substantially as and for the purpose described.

EDWARD W. HUNT.

Witnesses:

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