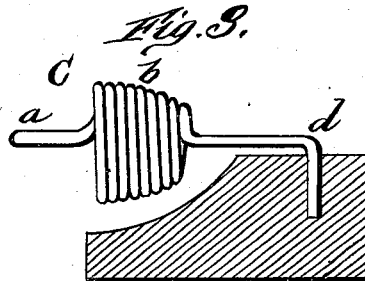
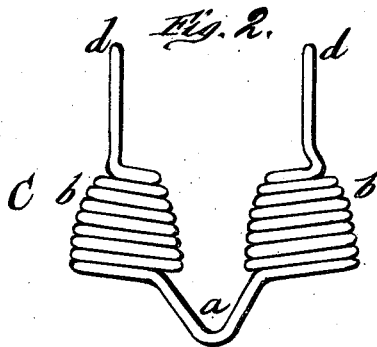
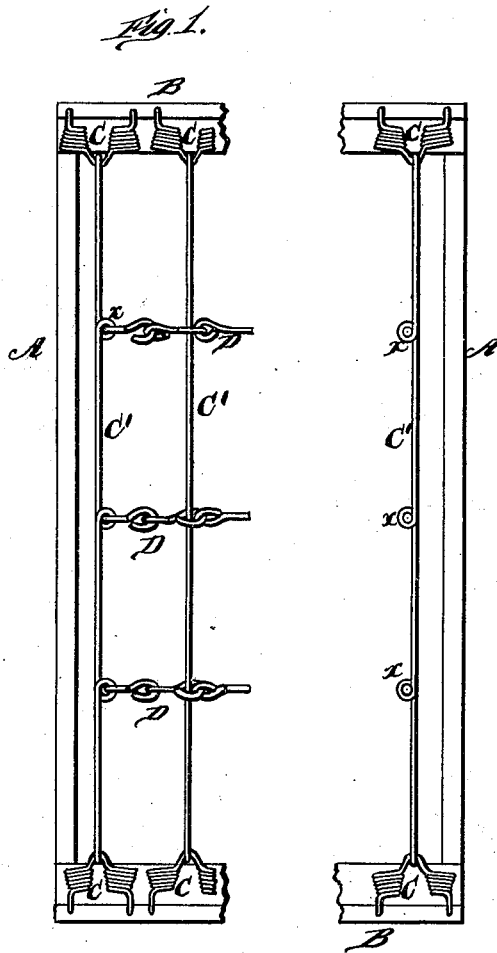


W. W. SNELL.
Bed-Bottom.

No. 197,422.

Patented Nov. 20, 1877.



WITNESSES.

Robert Everett
George E. Upham

INVENTOR.

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UNITED STATES PATENT OFFICE.

WILLIAM W. SNELL, OF RUSHFORD, MINNESOTA.

IMPROVEMENT IN BED-BOTTOMS.

Specification forming part of Letters Patent No. **197,422**, dated November 20, 1877; application filed October 13, 1877.

To all whom it may concern:

Be it known that I, WILLIAM W. SNELL, of Rushford, in the county of Fillmore and State of Minnesota, have invented a new and valuable Improvement in Spring Bed-Bottoms; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a plan view of a portion of my spring bed-bottom. Fig. 2 is a plan view of the spring; and Fig. 3 is a sectional view, showing manner of attaching the spring.

The nature of my invention consists in the construction and arrangement of a spring bed-bottom, as will be hereinafter more fully set forth.

The annexed drawings, to which reference is made, fully illustrate my invention.

The frame of my bed-bottom is composed of two side rails, A A, connected by cross-bars B B, fastened on top of the side rails at the ends thereof, as shown. The inner sides of the cross-bars B B are beveled downward, as seen in the drawings.

In each cross-bar B is fastened a series of double springs, C, each of which is made, in the following manner, of a single piece of spring wire: The wire is bent in the center to form a loop, *a*, and the wire then bent to form two close helical springs, *b b*, the extreme ends of the wire forming hooks *d d*. These hooks are fastened in the top edges of the cross-bars

B B, and the corresponding springs in the two cross-bars are connected by rods C' C', fastened in the center-loops *a a* of the springs.

The rods C' C' are connected at suitable intervals by means of chains D D. The ends of these chains are fastened in the two side rods by means of eyes or loops *x x* formed in said rods, while the intermediate rods simply pass through links in the chains, the whole forming a complete network of rods and chains, supported by means of the double springs C C. The hooks *d* of these springs are fastened in the top edges of the cross-bars B, and the main portions of the springs lie against the inclined faces thereof, as shown.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a spring bed-bottom, the double springs C, each made of a single piece of wire, bent to form the center-loop *a*, springs *b b*, and hooks *d d*, in combination with rods C' C', connecting the springs, substantially as and for the purpose set forth.

2. The combination of the double springs C, rods C', and chains D, substantially as and for the purposes set forth.

3. The combination of the side rails A A, beveled cross-bars B B, double springs C, rods C', and chains D, all constructed substantially as and for the purposes set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WM. WARD SNELL.

Witnesses:

E. A. HOSTVET,
S. F. IVERSON.