

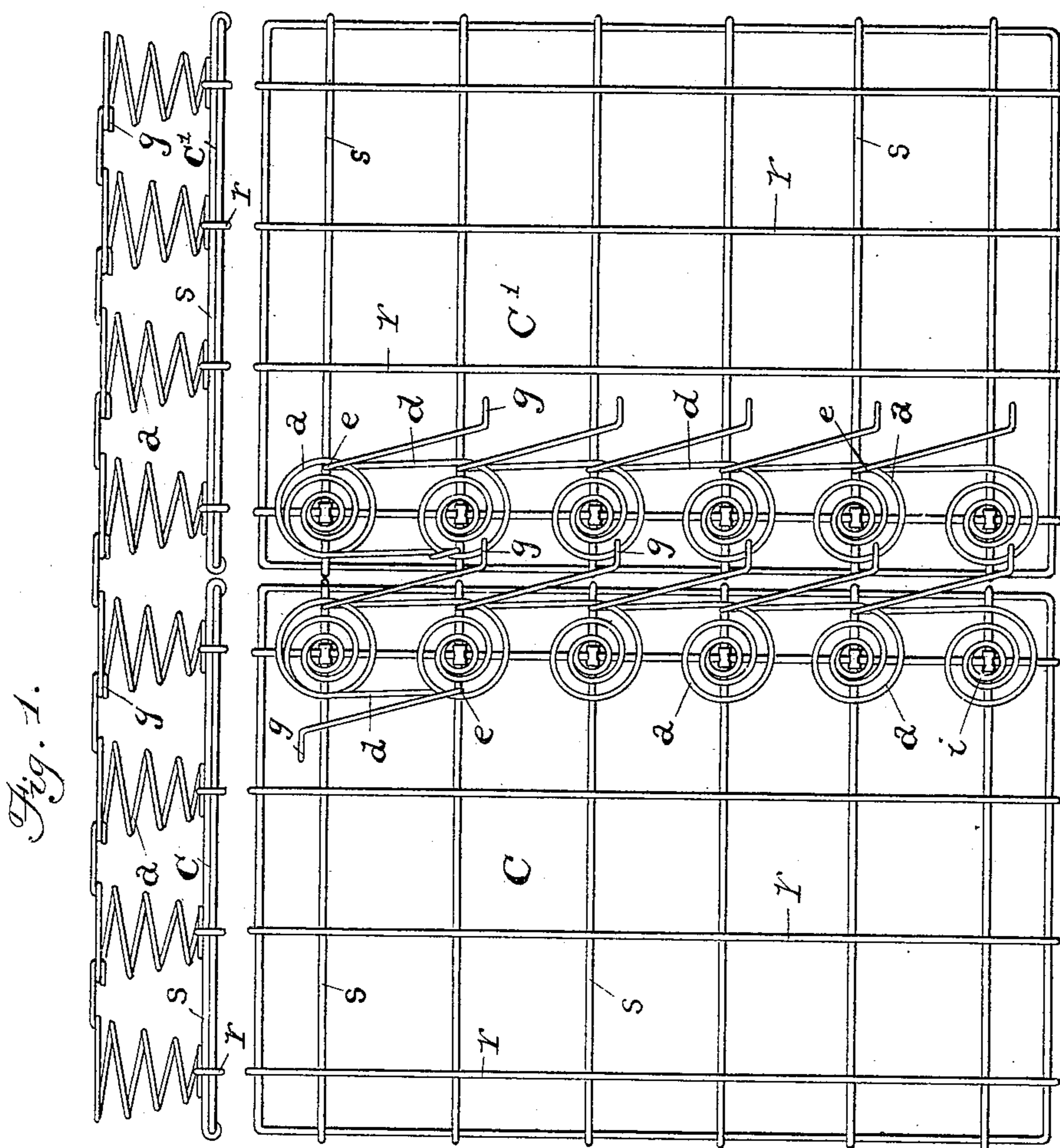
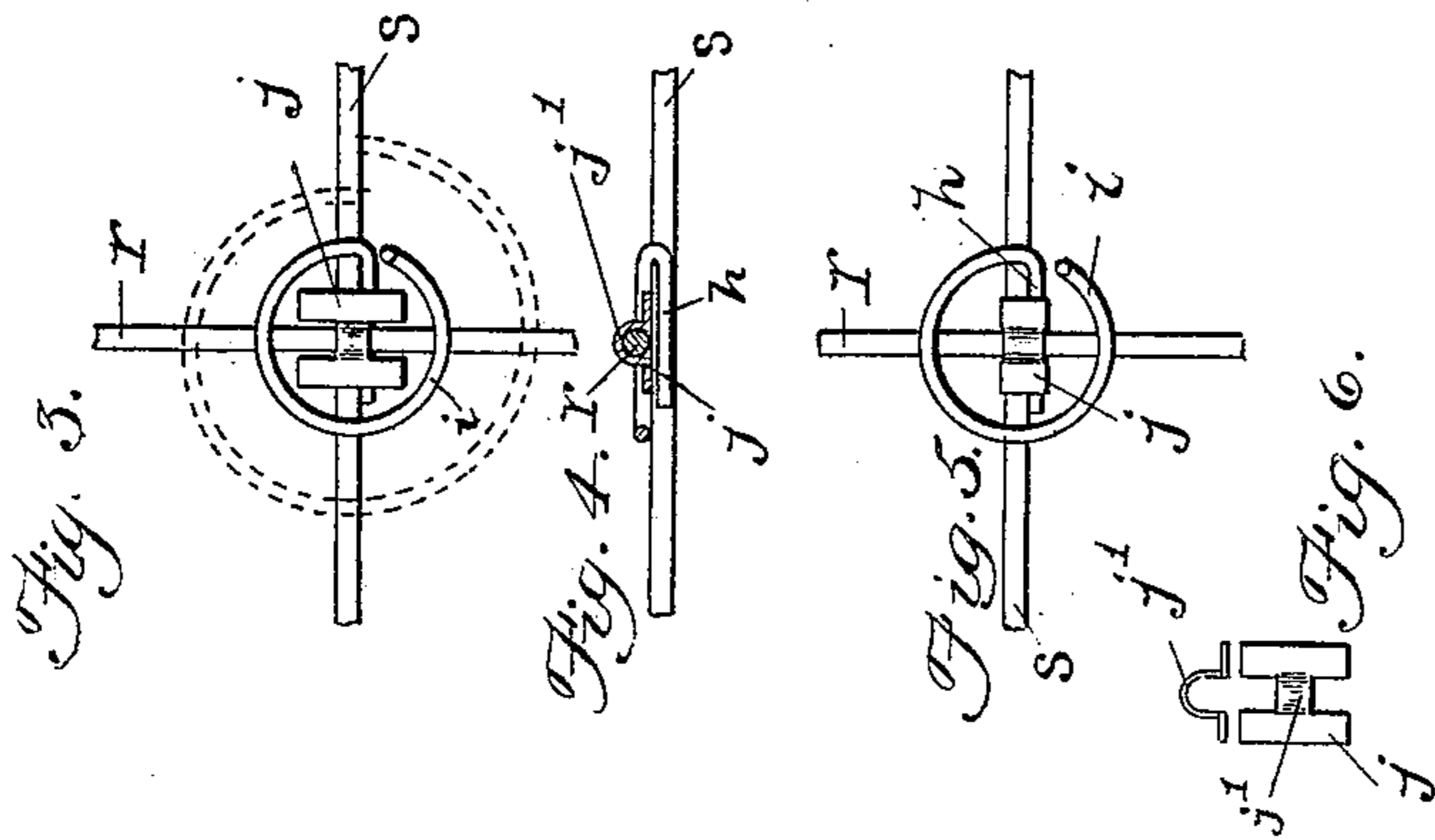
No. 622,030.

Patented Mar. 28, 1899.

W. L. ANTES.  
SPRING BED BOTTOM.

(Application filed Aug. 8, 1898.)

(No Model.)



Witnesses:

Lee J. Van Horn.  
Charles B. Mann Jr.

Fig. 2.

Inventor:

William L. Antes  
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# UNITED STATES PATENT OFFICE.

WILLIAM L. ANTES, OF BALTIMORE, MARYLAND.

## SPRING BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 622,030, dated March 28, 1899.

Application filed August 8, 1898. Serial No. 688,011. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM L. ANTES, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Spring Bed-Bottoms, of which the following is a specification.

This invention relates to certain improvements in spring bed-bottoms.

One object of the invention is to provide a bed-bottom made up of spiral springs having at the top an arm which connects with a similar spring at its side and also with another spring opposite—that is, in front of it—said springs being attached to a plural number of frames forming sections of the bed-bottom and the sections hinged or jointed by said connecting top arm of the springs.

Another object is to provide a construction for attaching the base of the spiral springs to a wire frame in such manner as will hold each spring from rotating or turning.

Referring to the drawings, Figure 1 is an edge view or side elevation of the spring bed-bottom. Fig. 2 is a top plan of same, only two rows of the springs being shown. Fig. 3 is a detail view of two cross-wires of the bed-bottom and base-coil of one spring, showing the open clip in position. Fig. 4 is a section of the parts seen in Fig. 3. Fig. 5 is a view of the same parts seen in Fig. 3, but shows the clip closed. Fig. 6 shows two views of the open clip.

The wire frame comprises longitudinal wires *r* and cross-wires *s* and is made in two sections *C C'*. The coil-springs *a* are like those shown and described in United States Patent to Edgar A. Jones, No. 326,039, dated September 8, 1885. Each spring has its top coil terminating in a straight arm *d*, projecting toward the adjoining side spring and then doubling back at *e* in a diagonal direction and terminating in a loop and hook *g*. The doubled-back bend *e* engages the arm *d* of a spring at the side, and loop or hook *g* engages the top coil of a spring opposite—that is, in

front. This feature of the springs is shown in the prior patent referred to.

I make the lowermost or base coil *i* of each spring terminate with a diametrical end *h*, and each spring is secured to the wire frame as follows: The base-coil *i* rests upon the crossing of the two wires *r s*. The diametrical end *h* of the spring takes under the cross-wire *s* of the frame and has position alongside of the longitudinal wire *r*. The open clip *j*, shaped in plan view like a letter **H**, with an arched cross-piece *j'*, is then set in position, the arched part taking over the cross-wire *s*, as in Fig. 3, and the ends of the clip are then bent around both the diametrical ends *h* and the longitudinal wire *r* and are secured by solder or otherwise. These clip ends thus firmly bind the spring to the wire bed-frame. This construction for securing the diametrical ends *h* of the springs by a clip holds each spring firmly and prevents it from rotating or turning.

The parts are so arranged that the last row of terminal loops or hooks *g* of the coil-springs on one section *C* act as hinges by connecting with the top coil of the first row of springs on the other section *C'*. It will thus be seen one section may be turned over and lie upon the other section.

Having thus described my invention, what I claim is—

A spring bed-bottom composed of longitudinal wires, *r*, and cross-wires, *s*; coil-springs each having its base-coil terminate with an end, *h*, extending diametrically across the coil and placed parallel and alongside of one of said bed-bottom wires; and an **H**-clip which takes over the cross-wires and binds the said diametrical end of the spring and bed-bottom wire, as set forth.

In testimony whereof I affix my signature in the presence of two witnesses.

WILLIAM L. ANTES.

Witnesses:

CHAPIN A. FERGUSON,  
CHAS. B. MANN.