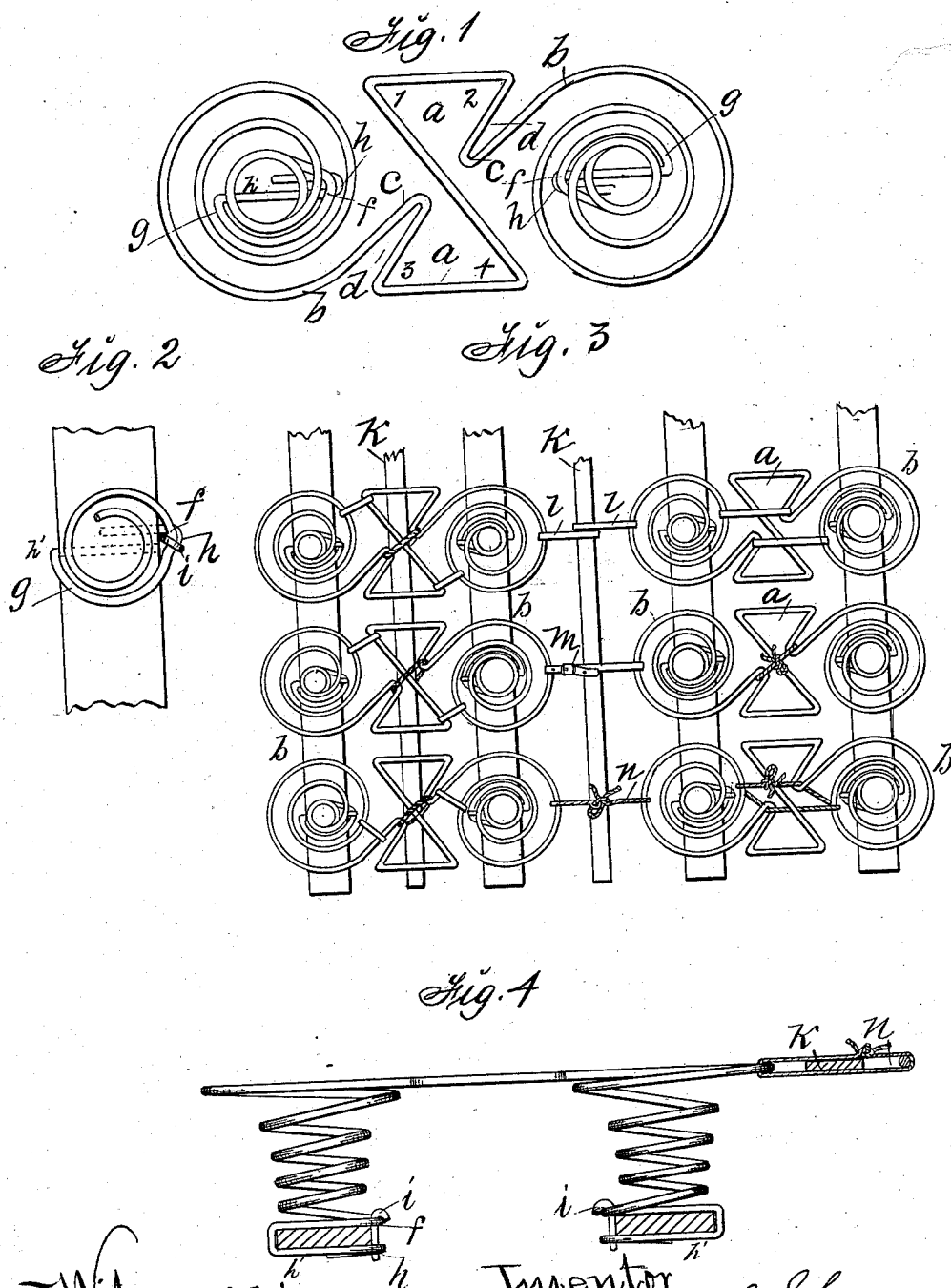


(No Model.)

H. L. SHERWOOD.
SPRING BED BOTTOM.

No. 258,256.

Patented May 23, 1882.



Witnesses:
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UNITED STATES PATENT OFFICE.

HARLEY L. SHERWOOD, OF DES MOINES, ASSIGNOR TO H. E. SHERWOOD,
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SPRING BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 258,256, dated May 23, 1882.

Application filed March 16, 1882. (No model.)

To all whom it may concern:

Be it known that I, HARLEY L. SHERWOOD, of Des Moines, in the county of Polk and State of Iowa, have invented an Improved Spring Bed-Bottom, of which the following is a specification.

The object of my invention is to provide a twin spring for bed-bottoms, formed complete from one piece of wire, in such a manner that triangular-shaped sections in its top surface will fill the space between the upper coils on the same plane, to aid in supporting the bedding placed thereon, and also to facilitate the lengthening and shortening and tension of the spring by means of detachable and adjustable bands, straps, or cords, to form the lower coils of a spring in such a manner that they will, in combination with a loop on the free end of the coil that passes under a slat, facilitate the attaching and detaching of the spring to the slat, and also its lateral adjustment on the slat, and to connect the top coils of adjacent springs in such a manner as to prevent noise, and also to facilitate the adjustment of the series of springs and slats relative to the size of the bed.

Heretofore circular auxiliary coils and V-shaped bends have been combined with the upper coils of twin springs to fill space, but not to regulate length and tension, as contemplated by my triangular-shaped sections. The lower coils of bed-springs have also had extensions to clasp supporting-slats; but in no instance has such a clasp terminated in a loop or eye immediately under a bend in the lower coil of a spring, to allow the parts to be locked together and also to the slat by simply inserting a key or pin, as hereinafter set forth.

Figure 1 of my accompanying drawings is a top view of one of my improved twin springs. Fig. 2 is a section thereof combined with a slat. Fig. 3 is a top view of a section of a bed-bottom composed of a series of my springs and one of my noiseless and adjustable coupling devices. Fig. 4 is a transverse section of my improved bed-bottom. Jointly considered, these figures clearly illustrate the construction and manner of adjusting my complete invention.

a a are the triangular-shaped sections, formed

integral with the upper coils, *b*, of a twin spring by first forming bights *c* at the end of each of those coils, and then a triangle, *a*, in such a manner as to produce two open loops, *d d*, and four bends, 1 2 3 4, in the wire, that are adapted to receive flexible bands, straps, or cords that can be readily attached in various ways, as shown in Fig. 3, and adjusted at pleasure to contract the complete spring longitudinally, as required to make a series of springs fit to a bed and to produce the tension and firmness necessary in a complete elastic bed-bottom to properly support the weight and promote the comfort of the occupants of the bed.

f (clearly shown in Fig. 2) is a bend in the lower coil, *g*, of a bed-spring, in such a position relative to the loop *h* on the free end of the extension *h'*, that passes transversely under the slat, that a key or pin, *i*, having a hook or head, can be readily passed downward between the bend *f* and the edge of the slat and through the loop *h*, as clearly shown in Fig. 4, to connect all the parts and lock the complete spring to the slat in such a manner that it can be readily adjusted laterally relative to the complete bed and longitudinally relative to the slat by simply sliding it on the slat.

k (shown in Figs. 3 and 4) is a rigid rod or bar adjustably connected with the upper coils of rows or sets of springs by means of flexible, adjustable, and detachable bands, straps, or cords, in such a manner as to produce a noiseless coupling device for connecting adjacent springs and sections of a bed-bottom that can be readily adjusted for the purpose of enlarging or diminishing a complete bed-bottom to fit beds of different sizes.

l l represent endless and elastic bands attached to the upper coils of adjacent springs in such a manner that the bands and springs can be readily connected by passing the rod or bar *k* through the same bands.

m represents a strap having a buckle at one end and perforations in its other end, fastened at its center to the bar *k* and then buckled to the coils of the springs.

n represents a cord tied or otherwise fastened at its central portion to the bar *k* in such a manner as to allow its ends to be passed

around the wire and coils of two adjacent springs and then tied together. The elastic bands will be self-adjusting, the straps can be readily adjusted by means of the buckles, and the cords by opening and retying, as required to contract or enlarge the space between the springs and the size of the complete bed-bottom.

The coupling device, composed of the bar and flexible bands, straps, or cords, will also at all times form a portion of the top surface of the complete bed-bottom and aid in supporting a mattress or other bedding placed upon it. The bar *k*, having straps or cords attached, can also be fastened against the under sides of the triangular-shaped sections *a* by passing the straps or cords through the bights *c* for the purpose of maintaining the top surface of the bed level and distributing the weight that may be placed upon any one spring in a transverse row, and also fixed to the head and foot boards of the bedstead and the straps or cords then connected with the springs to aid in maintaining the tension required to keep the top surface of the complete bed level under pressure.

I claim as my invention—

1. A twin spring for bed-bottoms, having triangular-shaped sections *a a* formed integral with its upper coils, *b*, by means of bights *c c* and bends 1 2 3 4, substantially as shown and described, for the purposes specified.

2. The improved twin spring for bed-bottoms, having triangular-shaped sections *a* formed integral with its upper coils, *b*, by means of bights *c c* and angular bends 1 2 3 4, and an angular bend, *f*, in its lower coil, immediately over the loop *h* of a transverse extension, and clasp *h'* for engaging a slat, substantially as shown and described, for the purposes specified.

3. The adjustable and detachable coupling device, composed of a rod or bar, *k*, and a series of bands, straps, or cords *l m n*, in combination with two series or rows of springs, substantially as shown and described, to operate in the manner set forth, for the purposes specified.

4. The improved bed-bottom, composed of a series of adjustable slats, a series of twin springs having triangular-shaped sections *a*, bights *c c*, and bends 1 2 3 4 in their top surfaces, adapted to retain adjustable stays, and bends *f* and loops *h* at their bottoms, adapted to receive keys or pins *i* and adjustable coupling devices *k l m n*, substantially as shown and described, for the purposes specified.

HARLEY L. SHERWOOD.

Witnesses:

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