

(No Model.)

O. S. FOSTER.
BED BOTTOM.

No. 441,652.

Patented Dec. 2, 1890.

Fig. 1.

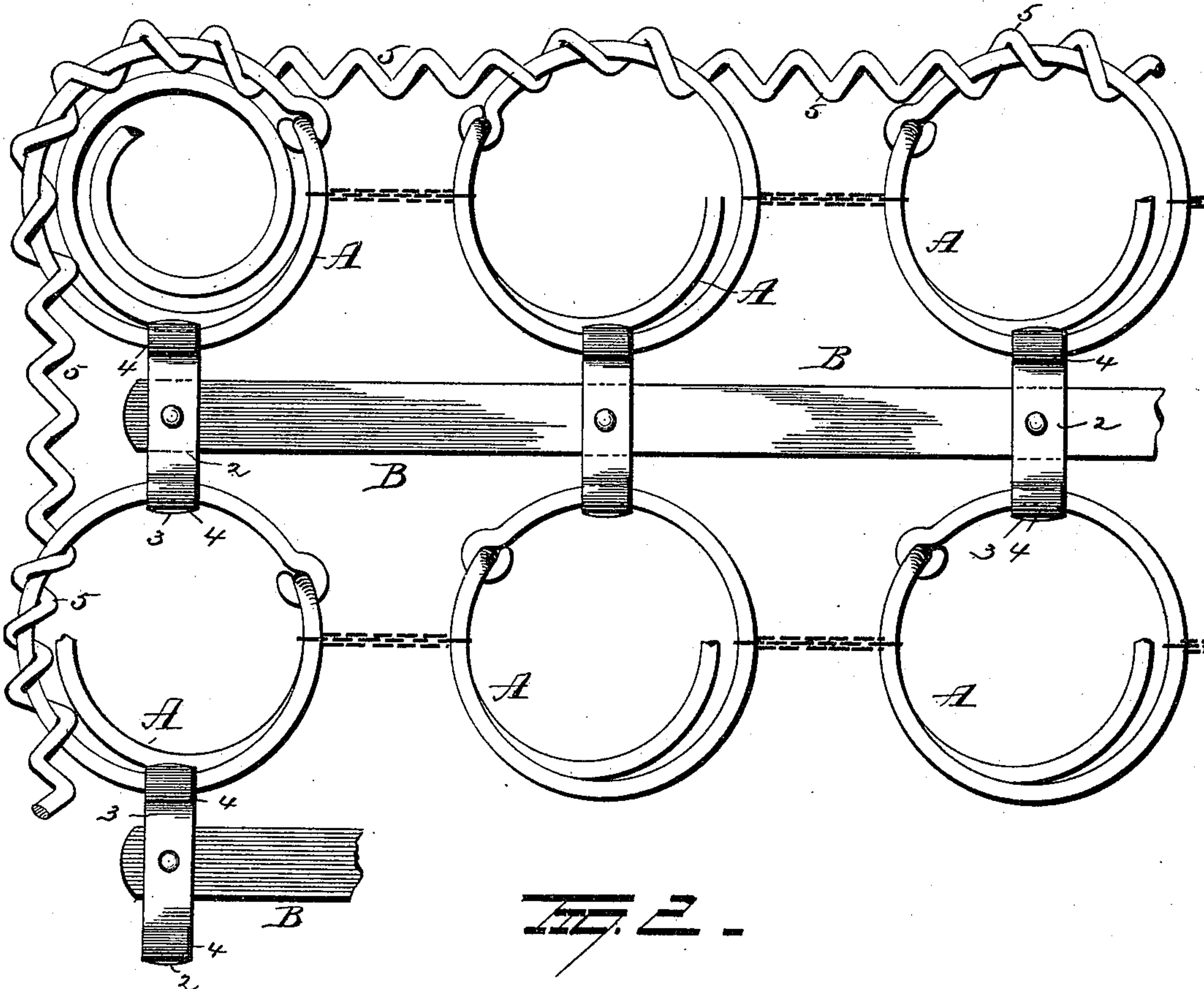


Fig. 2.

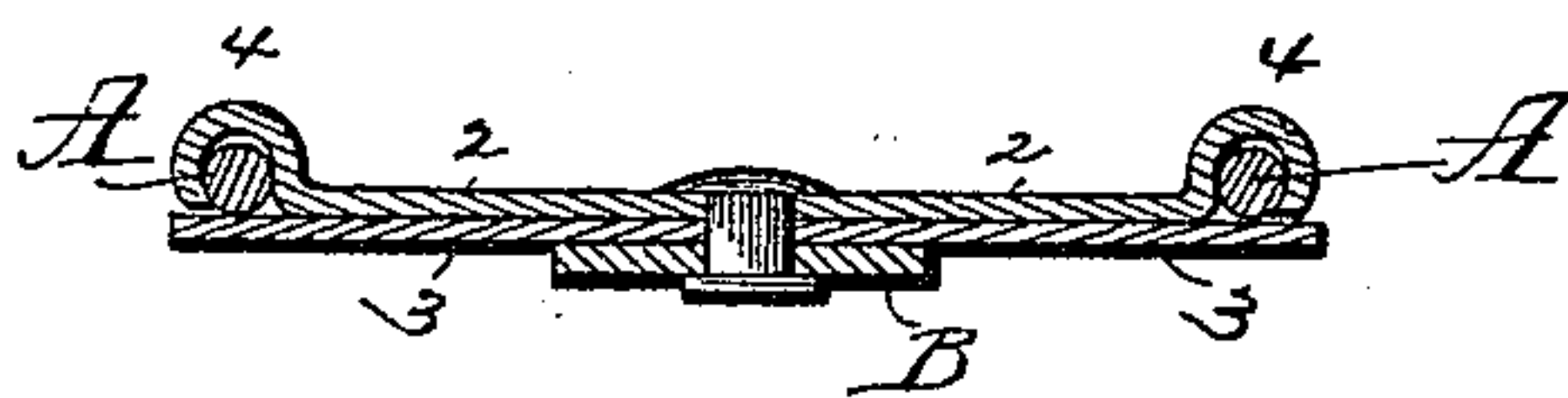
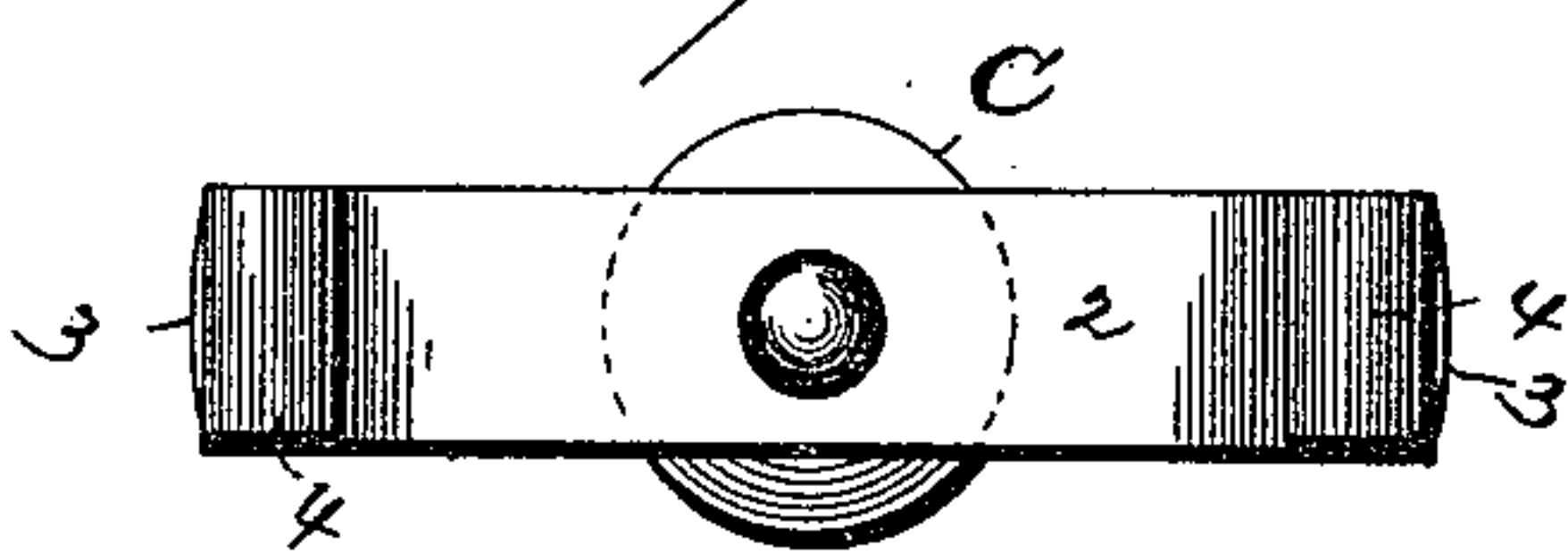


Fig. 3.



Witnesses

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OSCAR S. FOSTER, OF UTICA, NEW YORK.

BED-BOTTOM.

SPECIFICATION forming part of Letters Patent No. 441,652, dated December 2, 1890.

Application filed March 1, 1890. Serial No. 342,218. (No model.)

To all whom it may concern:

Be it known that I, OSCAR S. FOSTER, of Utica, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Bed-Bottoms; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in spring bed-bottoms, the object being to provide a reversible bottom composed of detachable parts, which may be quickly and easily put together or taken apart without the use of tools for the purpose and without requiring the exercise of unusual skill or ingenuity; and with this end in view it consists in rows of spiral springs in connection with spring-clasp connections between the spiral springs, and in certain other novel features of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view. Fig. 2 is a transverse section through the spring-clasp, and Fig. 3 is a modification.

A A represent rows of spiral springs running lengthwise of the bed and connected together in a series, preferably by being interlocked at their adjacent edges, or by means of short chains, or in any other approved manner. These several rows or series are joined by the spring-ties B B, which latter are interposed between the rows or series of springs. These ties consist of long narrow strips of metal, preferably steel, having spring-clasps secured thereto at points opposite the points of nearest approach between the adjacent rows of springs. Each spring-clasp is made up of two spring-jaws 2 and 3, riveted or otherwise secured to the ties B B. One of the plates comprising the jaws is flat and straight, or practically so, as shown in Fig. 2, and the other plate is bent at or near its ends to form loops 4 4 to receive a coil of the springs A A therein. These spring-jaws, forming the clasp, extend transversely across the ties B, and the width of the latter is sufficient to form extended bearings for the straight plate, in order to restrict the yielding portion of the jaw to that part protruding beyond the edges of

the tie to which it is secured, so that the bending will not be at the rivet or the weakest part, where breaking would eventually follow from repeatedly forcing the jaws apart to insert a coil of the spring.

In the modification the plate B is dispensed with, and in lieu of it a washer C is riveted back of the spring-jaws to form the extended bearing. These series of springs are usually connected by these spring-ties at each end, so as to make the bed-bottom reversible, and the springs are preferably connected at their outer edges by means of a spiral border-wire 5, which is screwed into the outer spirals of the springs, and which forms a yielding border for the side edges of the bed-bottom. It is evident that these spring-jaws might be differently formed and that other slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction herein set forth; but,

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

1. In a spring bed-bottom, the combination, with spiral springs, of spring-clasps for connecting the springs, said clasps consisting of two pairs of spring-jaws held yieldingly together and adapted to spread apart to receive coils of the springs between them, substantially as set forth.

2. In a spring bed-bottom, the combination, with spiral springs, of spring-clasps for connecting the spiral springs together, said clasps consisting of double spring-jaws connected yieldingly together and an extended bearing secured back of one of the plates forming the jaws, substantially as set forth.

3. In a spring bed-bottom, the combination, with spiral springs, of spring-ties consisting of narrow plates adapted to be interposed between rows of springs and double spring-jaws secured to the plates, substantially as set forth.

4. The combination, with two rows or series of loosely-connected spiral springs, of spring-ties consisting, essentially, of narrow plates of metal and spring-jaws secured thereto, said jaws composed of a pair of spring-plates

riveted or otherwise secured to the main plate, one or both of the plates forming the jaw having loops formed therein to receive coils of the spiral springs, substantially as set forth.

- 5 5. As an article of manufacture, a spring-tie consisting of a strip of material having spring-jaws secured transversely thereon at suitable intervals, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

OSCAR S. FOSTER.

Witnesses:

C. S. DRURY,
V. E. HODGES.