(No Model.) 2 Sheets—Sheet 1.

F. B. MIX.

Spring Bed.

No. 240,919. **Patented May 3, 1881.**

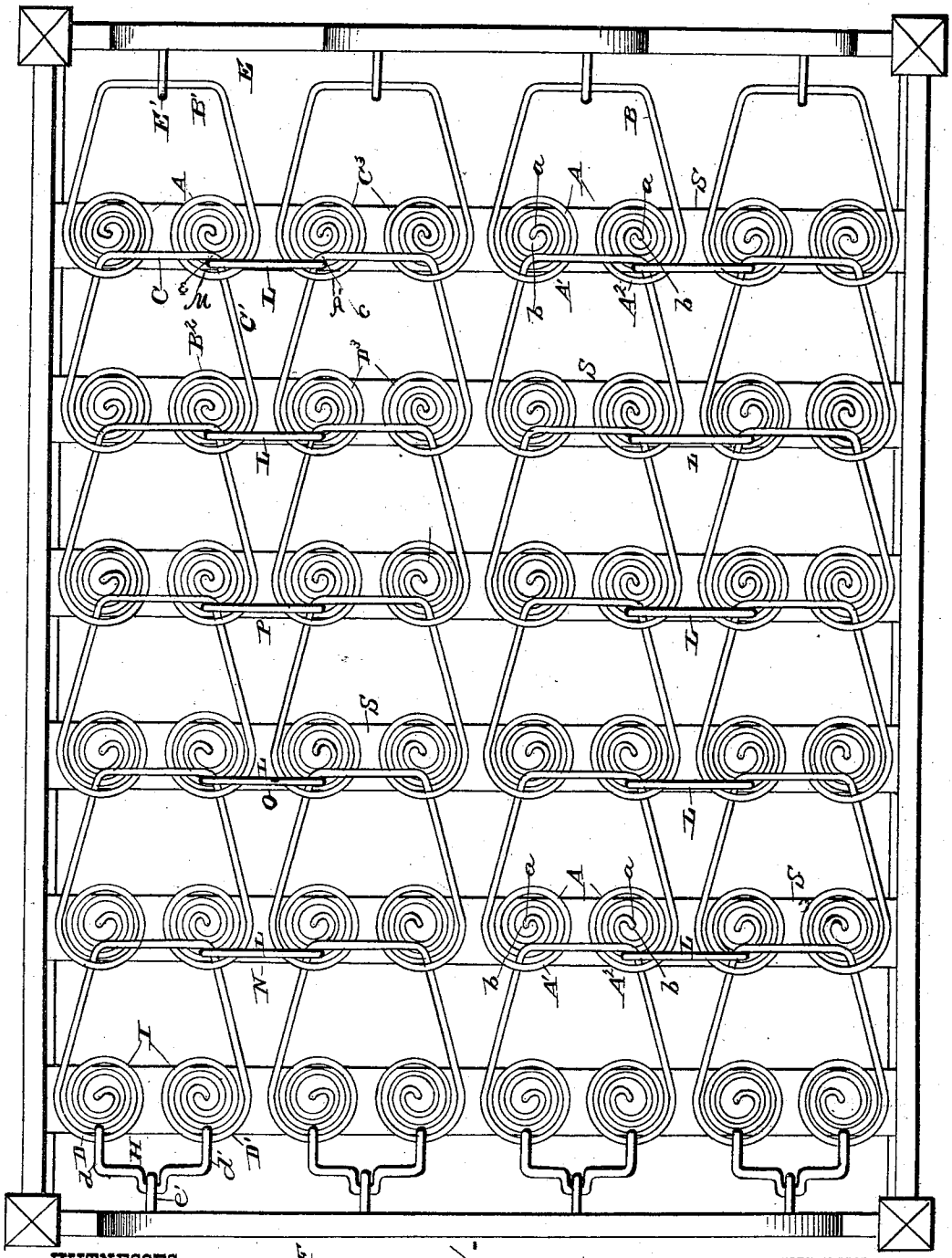


Fig. 1.

WITNESSES

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A. D. Lawrence.

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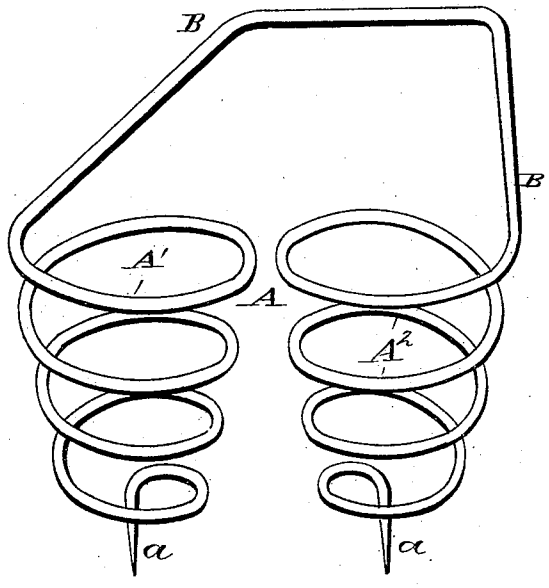
(No Model.) 2 Sheets—Sheet 2.

F. B. MIX.

Spring Bed.

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Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

FRANK B. MIX, OF DECATUR, ILLINOIS.

SPRING-BED.

SPECIFICATION forming part of Letters Patent No. 240,919, dated May 3, 1881.

Application filed July 26, 1880. (No model.)

To all whom it may concern:

Be it known that I, FRANK B. MIX, of Decatur, in the county of Macon and State of Illinois, have invented certain new and useful Improvements in Spring-Beds; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in spring-beds, and is designed to provide a light, simple, and cheap article, and one possessing many advantages over old forms, inasmuch as it is easily adjusted and adapted to fit bed-frames of any size and ordinary construction, and is readily attached to or removed therefrom. Moreover, it is lasting in use, will not wear or injure the bedding, and is capable of being taken apart and compactly packed for transportation.

With these ends in view my invention consists in a spring-bed formed of a series of double spiral springs having their laterally-projecting loops interlocked with each other, placed on the slats in the bed-frame in rows, and made rigid by securing groups of four adjoining springs together with an open link.

My invention further consists in certain details 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 of a bed provided with my improved double spiral springs; and Fig. 2 is a perspective view, showing one of the double springs.

A represents one of my double spiral springs, consisting of a single piece of wire coiled to form two spring-spirals, A' A^2, and provided with a laterally-projecting loop, B, by means of which a series of similar springs are interlocked with each other to form a spring-bed. The wire ends *a a*, projecting from the apex of the spirals, are adapted to be received into the sockets or holes *b b* formed in the transverse slats S, constituting a part of the bed-frame, thereby insuring the springs firm connection therewith and preventing them from displacement. The spring A at the right-hand corner of the head-board E is secured thereto by a hook or eye screw, E′, engaging with the end bar, B′, of the loop B of the spring, the wire ends *a a* thereof being inserted in the sockets *b b* of the slats S, as before described. The next succeeding spring, B^2, is interlocked with the spring A by inserting the end bar, C, of its loop C′ beneath the upper coils of the spirals of the spring A in such manner that the middle portion of said end bar, C, will rest upon the top coil of said spirals. When a sufficient number of springs interlocked with each other, as described, and forming a line or row, is obtained to reach the foot-board F, they are thereto secured by a two-armed or bow-shaped hook, H, the arms *d d* of which respectively engage with the upper coils of the two spirals D D′ of the end spring, I, said hook being secured to the foot-board by an eye-screw, hook *e′*, or an equivalent therefor. Any desired number of rows of springs, according to the size thereof and the width of the bed-frame, are thus secured therein. The springs of the adjoining rows are connected together, to give rigidity to the spring-bed, in groups of four springs each by an open link, L, (shown as connecting the springs A, B^2, C^3, and D^3 in the upper right-hand corner of the bed-frame,) the right-hand arm of the link L engaging with the upper coil of the spiral A' of spring C^3, and the corner angle *c* of the loop of spring D^3, and the left-hand arm of said link engaging with the upper coil of spiral M of the spring A and the corner angle *e* of the loop of the spring B^2. At N O P groups of four springs each are likewise connected. It is thus, by means of one small open link, I am enabled to secure four springs and make the spring-bed rigid, and yet not in any way impair the elasticity thereof. The rows of springs are attached together, as above shown, except the two rows, which meet in the center of the bed. The two sides or sets of springs are thus separate, and act entirely independent of each other. My improved spring-bed is easily adjusted, and adapted to fit bed-frames of any size and ordinary construction by adding to or removing a row of springs from the side thereof, according as the bed is too narrow or too broad, or adding to or removing springs from the ends of the rows, according as the bed is too short or too long. By freeing the springs from the head-

board and foot-board of the bed-frame, they may be removed and compactly packed for transportation.

I would have it understood that I do not limit myself to the exact construction shown and described, but hold myself at liberty to make such slight changes and alterations as come within the spirit and scope of my invention.

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

1. In a spring-bed, the combination of two or more double spiral springs, each double spring being provided with a laterally-projecting loop, and the loop of one double spring being directly interlocked with the coils of the two spirals of the adjacent double spring, substantially as set forth.

2. A spring-bed formed of double spiral springs, each provided with a laterally-projecting loop, the end bar or portion of the loop of one spring being inserted beneath and arranged to rest upon the upper coils of the next adjacent spring, substantially as set forth.

3. In a spring-bed, the combination, with a series of double spiral springs, with their laterally-projecting loops interlocked with the next adjacent spring, of an open link arranged to engage with four adjoining springs and give rigidity to the spring-bed, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 10th day of July, 1880.

FRANK BENJAMIN MIX.

Witnesses:

PETER A. HOFFMAN,

CHARLES B. ACKRON.