No. 773,911. PATENTED NOV. 1, 1904.

W. J. BAKER.

SPRING MATTRESS.

APPLICATION FILED APR. 30, 1904.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 1.

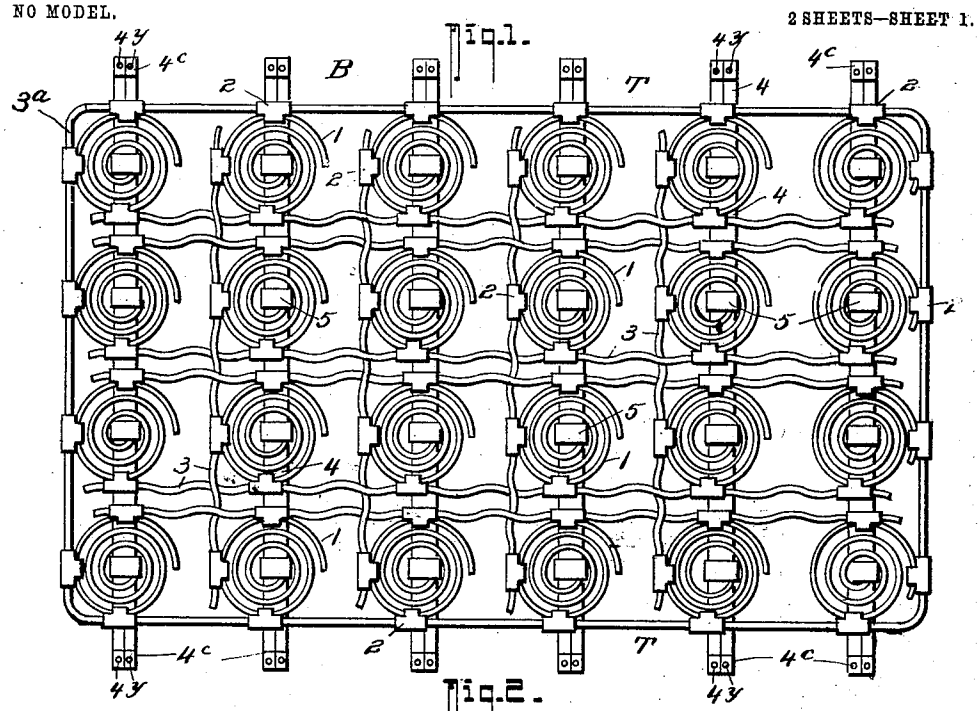
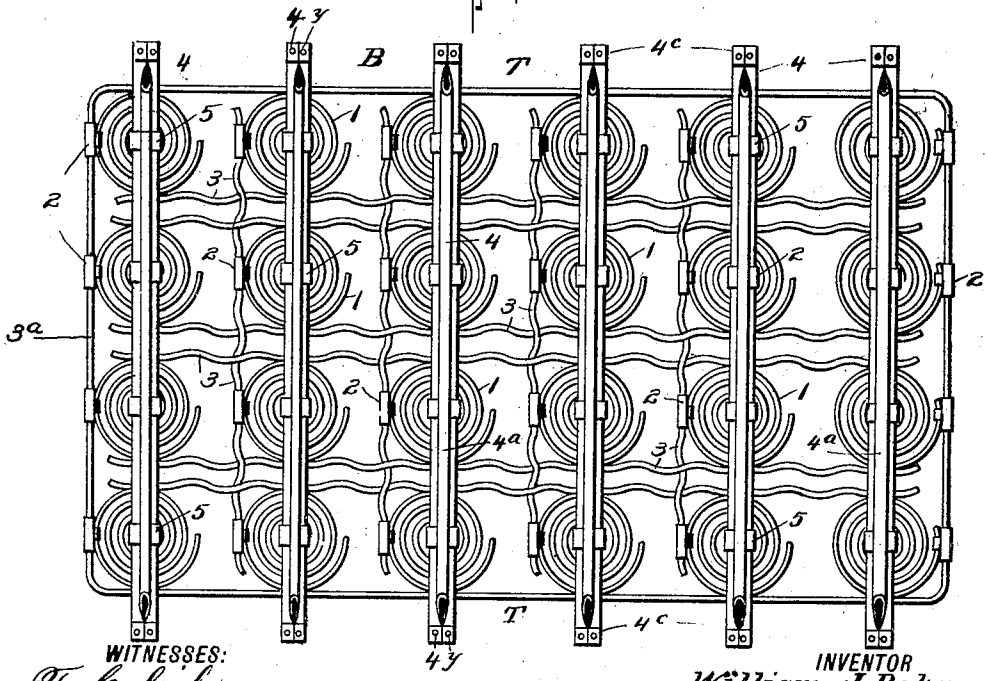


Fig. 2.



WITNESSES:

F. C. Gibson.

John T. Schrott.

INVENTOR

William J. Baker.

BY

Fred G. Dieterich & Co.

ATTORNEYS

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No. 773,911. PATENTED NOV. 1, 1904.

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NO MODEL. 2 SHEETS—SHEET 2.

Fig. 3.

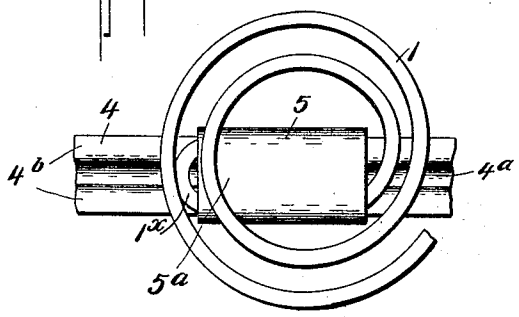


Fig. 4.

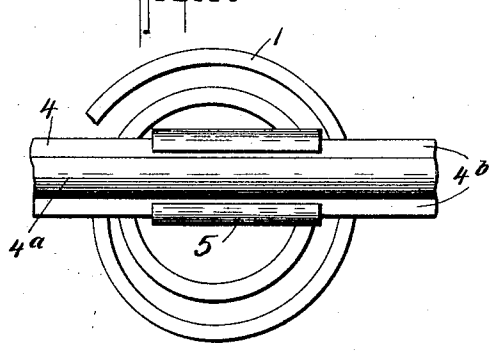


Fig. 5.

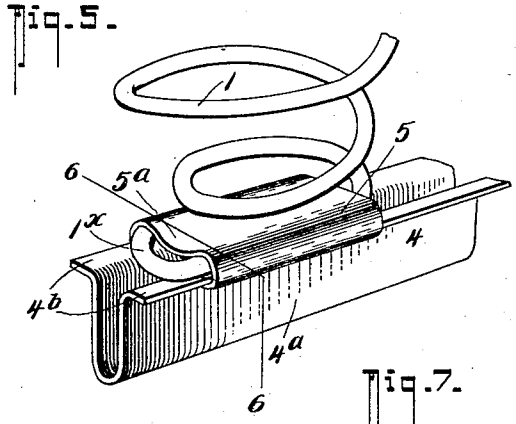


Fig. 6.

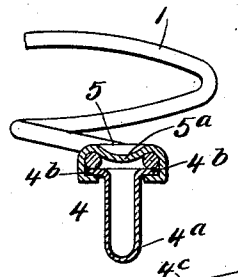


Fig. 7.

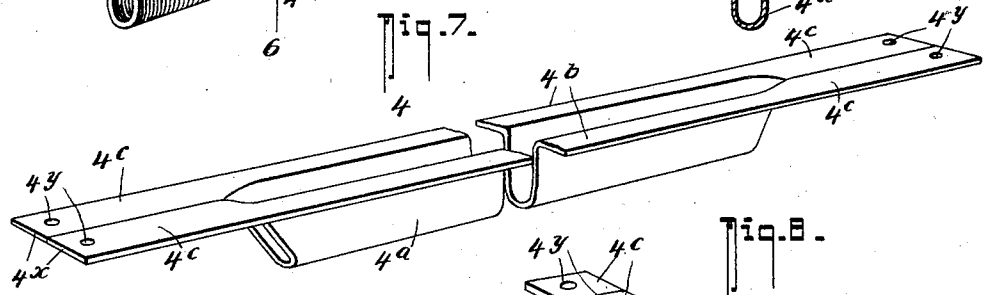


Fig. 8.

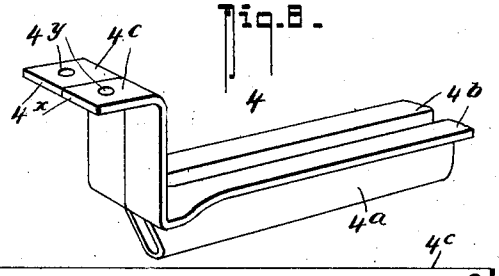


Fig. 10.

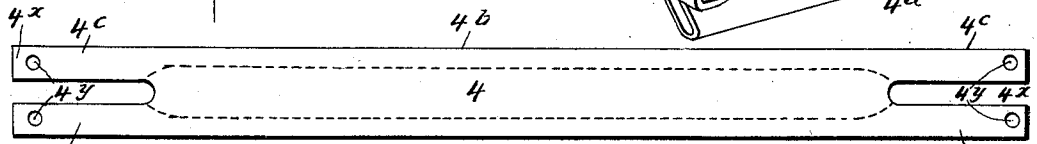
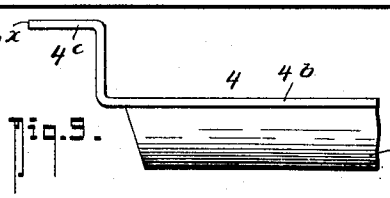


Fig. 9.



WITNESSES:

F. C. Gibson.

J. J. Schott.

INVENTOR

William J. Baker.

BY

Fred G. Dieterich & Co.

ATTORNEYS

No. 773,911. Patented November 1, 1904.

UNITED STATES PATENT OFFICE.

WILLIAM J. BAKER, OF NEWPORT, KENTUCKY.

SPRING-MATTRESS.

SPECIFICATION forming part of Letters Patent No. 773,911, dated November 1, 1904.

Application filed April 30, 1904. Serial No. 205,804. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. BAKER, residing at Newport, in the county of Campbell and State of Kentucky, have invented a new and Improved Spring-Mattress, of which the following is a specification.

My invention relates to certain improvements in spring-beds or spring-mattresses, and more particularly has for its object to provide a spring-mattress adapted for use with iron or other metallic bedsteads of the ordinary type; and the invention more particularly seeks to provide a mattress of this character of a very simple, economical, and durable construction and which will readily serve its intended purposes.

Generically the invention consists in a plurality of transverse slats having angled portions for engaging the bed's side, the said slats being of a peculiar construction to render them strong and durable; and the invention also consists in a peculiar woven-wire top or reinforce for the coil-springs attached to the slats.

Again, the invention includes certain novel constructions and combination of parts, all of which will be first described in detail and then specifically pointed out in the appended claims, reference being had to the accompanying drawings, in which—

Figure 1 is a top plan view of my invention. Fig. 2 is an inverted plan view thereof. Fig. 3 is an enlarged detail plan view of a portion thereof. Fig. 4 is a similar vertical plan view of the parts shown in Fig. 3. Fig. 5 is an enlarged detail perspective view of one end of a slat, showing the manner of attaching the coil-spring. Fig. 6 is a cross-section thereof, taken on the line 6 6 of Fig. 3. Fig. 7 is a detail perspective view of one of the slats before its ends are bent into shape and after the rib is formed. Fig. 8 is a similar view, on an enlarged scale, of one end of the slat bent into its final position. Fig. 9 is a side elevation of a portion of a slat. Fig. 10 is a view of the blank from which the slat is formed.

Referring now to the accompanying drawings, in which like numerals and letters of reference indicate like parts in all of the figures, the mattress B consists of the usual spiral coil-springs 1, arranged in a plurality of series, each series being secured to the slats 4, hereinafter again referred to. To the upper portions of the springs 1 are secured the woven-wire top T, consisting of the crimped wires 3, fastened to the said springs by clips 2, which may be of any ordinary construction, preferably the construction shown in my Patent No. 718,301, dated January 13, 1903. By providing the top with woven crimped wires instead of straight wires I insure a more positive hold of the clips 2 on the said wires and springs.

3^a designates a surrounding or circumferential wire which joins the outer springs to each other and is secured to the said springs by similar clips 2, as shown in Fig. 1.

The slats 4 (shown in detail in Figs. 3 to 8, inclusive) are stamped out of a suitable blank (see Fig. 8) to form a U-shaped rib 4^a, having flanges 4^b, and the ends 4^c of the said slats are bifurcated, so that when the rib 4^a is formed the bifurcated ends 4^c 4^c will lie together adjacent to one another and in the same plane, as clearly shown in Figs. 5 and 6. By reference to Fig. 3 it will be seen the coil-spring 1 has its end 1^x bent into a U shape and adapted to lie in a horizontal plane on top of the U-shaped rib 4^a and flanges 4^b, and the said end 1^x of the coil-spring 1 is held onto the slats 4 by the clips 5, which pass over the U-shaped portion 1^x of the spring 1 and take around the flanges 4^b, as shown, and the said clips 5 after the spring is in position and after the said clips are placed over the spring end are indented, as at 5^a, to prevent the withdrawal of the spring end from under the clip. In practice whenever found desirable I may provide the extreme ends 4^x of the slats with apertures 4^y to receive any suitable fastening-lugs. (Not shown.)

From the foregoing it will be seen that I provide a mattress of a very simple, economical, and durable construction which can be easily and cheaply manufactured and in which the springs will be firmly secured to the slats and each series held in proper correlative position to the other by the woven-wire top of crimped wire, and by securing the wire to the springs in the manner shown and described

the said springs will be held in their proper correlative position with respect to each other, the crimping of the wire serving, as before stated, to prevent the slipping of the clips, and thereby permitting the clips to the more firmly secure the springs and wires together.

From the foregoing, taken in connection with the accompanying drawings, it is thought that the complete operation and advantages of my invention will be readily understood by those skilled in the art to which it appertains, and I desire it understood that slight changes in the detailed construction of my invention may be made without departing from the scope of the invention or the appended claims.

I am aware that spring-mattresses have heretofore been provided in which are included metallic slats having portions for attaching to the bed-frame and to which springs are secured; yet I do not believe that the construction of bed disclosed in the accompanying drawings and described in the foregoing specification has heretofore been provided.

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

1. In a device of the class described, the combination with the woven crimped-wire top and the coil-springs secured thereto, of metallic slats, said slats being U-shaped in cross-section and provided with flanges, and a metallic clip for taking over the end of the coil-spring and the flanges of the slats to secure the said springs to the said slats for the purposes specified.

2. A device of the character stated, comprising in combination with coil-springs, of metallic slats, said slats consisting of a flat metallic strip having a U-shaped rib running lengthwise thereof, means for securing said springs to said slats, the ends of said metallic strips being bifurcated, said bifurcated ends, where the rib terminates, being bent upwardly, at right angles to the length of the strip, with the bifurcated ends adjoining one another for the purposes specified.

3. A device of the character stated, comprising in combination with coil-springs, of metallic slats, said slats consisting of a flat metallic strip having a U-shaped rib running lengthwise thereof, means for securing said springs to said slats, the ends of said metallic strips being bifurcated, said bifurcated ends where the rib terminates being bent upwardly at right angles to the length of the strip and away from the rib, and outwardly at right angles to the upwardly-bent portions to form a hanger, said bifurcated ends when bent upwardly and outwardly lie adjacent to and in contact with one another to close the gap between for the purposes specified.

4. A device of the character stated, comprising in combination with coil-springs, of metallic slats, said slats consisting of a flat metallic strip having a U-shaped rib running lengthwise thereof, means for securing said springs to said slats, the ends of said metallic strips being bifurcated, said bifurcated ends where the rib terminates, being bent upwardly at right angles to the length of the strip and away from the rib, and outwardly at right angles to the upwardly-bent portions to form a hanger, said bifurcated ends when bent upwardly and outwardly lie adjacent to and in contact with one another to close the gap between, the said outwardly-bent portions being perforated for the purposes specified.

5. In a device of the character described, comprising in combination with a woven-wire top and U-shaped metallic slats of coil-springs, means for securing said springs to the top, ⊂⊃-shaped clips adapted to fit over the ends of the springs to hold them to the slats and means for preventing withdrawal of said spring ends from said clips.

6. As a new article of manufacture, a metallic slat comprising a flat strip having bifurcated ends, said strip being stamped with a U-shaped rib running lengthwise thereof, said rib terminating in bifurcated ends, said bifurcated ends being adapted to be bent upwardly and outwardly to lie with their inner edges in contact with each other and in the same plane for the purposes specified.

WILLIAM J. BAKER.

Witnesses:
HORACE W. ROOT,
THOMAS HEALY.