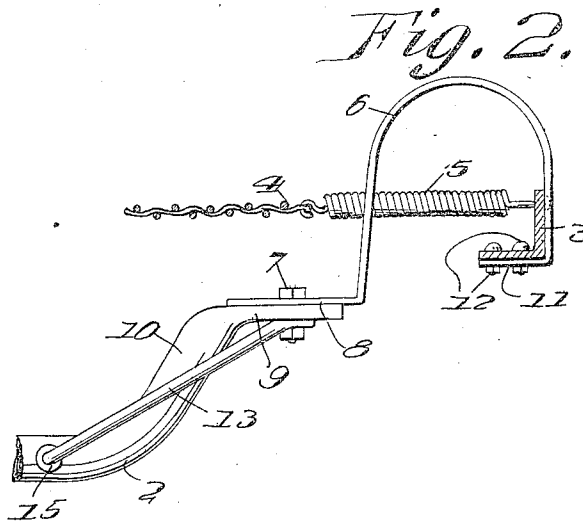
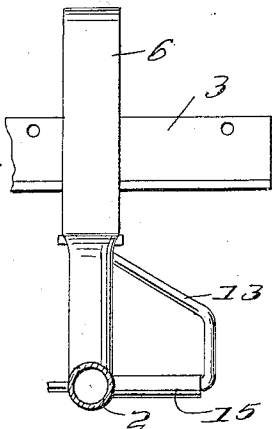
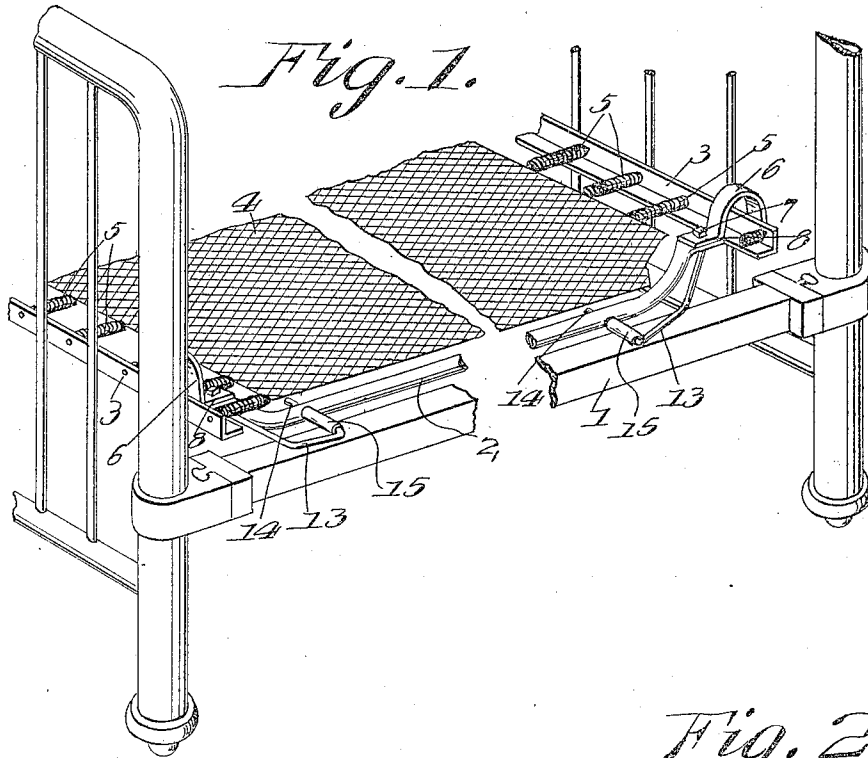


F. A. PALMER.
MATTRESS SUPPORTING FRAME.
APPLICATION FILED NOV. 8, 1912.

1,065,076.

Patented June 17, 1913.



WITNESSES
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UNITED STATES PATENT OFFICE.

FREDERICK A. PALMER, OF MIDDLETOWN, CONNECTICUT.

MATTRESS-SUPPORTING FRAME.

1,065,076.

Specification of Letters Patent.

Patented June 17, 1913.

Application filed November 8, 1912. Serial No. 730,176.

To all whom it may concern:

Be it known that I, FREDERICK A. PALMER, a citizen of the United States of America, and resident of Middletown, in the county of Middlesex and State of Connecticut, have invented certain new and useful Improvements in Mattress-Supporting Frames, of which the following is a specification.

This invention relates to certain new and useful improvements in bed-bottom frames and pertains more particularly to the construction of the corner of the frame, having for its objects among others to provide a spring corner iron or standard for a bed-bottom frame, embodying a spring serving as a support for the end bar and as a corner iron or standard for the frame. It also serves to suspend the end bar of the mattress frame and elevates the wire mattress in addition to providing a resilient support. By my improved construction I am enabled to materially lessen the weight and provide for compactness as well as simplicity of construction.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be particularly pointed out in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the numerals of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view of a portion of a bed equipped with my present improvements, parts being broken away. Fig. 2 is an enlarged detail in elevation with parts broken away and the end rail in section. Fig. 3 is a detail at right angles to Fig. 2.

Like numerals of reference indicate like parts throughout the different views.

Referring to the drawings, 1 designates the side rail of a bedstead of any well known or approved form of construction.

2 is a side rail of the mattress frame which may be tubular, solid and of any desired form in cross section.

3 are the end rails of the bed-spring or wire mattress frame.

The bed spring or mattress 4 may be of any well known or approved form of construction, in the present instance shown, merely by way of example, as of a woven wire fabric connected at the ends with the end rails 3 by helical springs or the like 5.

The end rails 3 are supported in a novel manner. At each corner of the bed spring or mattress frame I provide a standard 6 which may be attached to the ends of the side rails 2 in any well known manner. In the present instance they are shown as connected by bolts 7. In the present instance the standards 6, which are of spring metal, each has a horizontal portion 8 which rests upon a horizontal portion 9, which is the terminal of the upwardly bent portion 10 of the side rail 2. This serves to elevate the frame 2 well above the side rails of the bedstead so as to give free play to the fabric 4, particularly at the side edges. The other end of the standard supports the end rail 3 which may be affixed thereto in any well known manner. In the present instance I have shown the standard 6 as provided with the substantially horizontal portion 11 which extends inwardly toward the end of the side rail 2 and is thus disposed beneath the arched portion of the spring standard 6. The horizontal portion of the angle-iron end rail 3 rests upon this horizontal portion 11 and is secured thereto by bolts 12 or any other preferred means.

It will thus be seen that I have provided a simple and cheap, light yet efficient frame in which the woven wire fabric is resiliently supported in an elevated position, with sufficient freedom of motion, and yet possessing the required strength.

At each corner of the frame I employ a brace which in the present instance consists of a substantially L-shaped member 13 composed of a stout iron rod having its transverse portion 14 passed through the side rail 2 and its other end secured upon the under side of the horizontal portion 9 of the end of the side rail, preferably by the same bolt 7 which serves to secure the horizontal portion 8 of the spring standard 6 to such horizontal portion 9 of the side rail, as seen clearly in Fig. 2. This brace is inclined upwardly, as shown, and serves to materially brace and strengthen the frame, making it very rigid and not liable to distortion, and thus the frame is firmly held in its rectangular form. Upon the transverse portion 14 of this brace I place a, preferably rubber, tubular member 15 which bears upon the upper face of the side rail 1 of the bedstead and serves to prevent noise in the use of the bed and also tends to prevent marring of the side rail of the bedstead. This brace

furthermore serves to maintain the end rail of the mattress frame at the desired elevation.

It is to be noted that the spring standards form a part of the mattress frame and form the sole support for the end rails of the same.

Modifications in details may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages.

What is claimed is:—

1. A bed or mattress supporting frame comprising side rails, end rails, and resilient standards forming the connections between said side and end rails and supporting said end rails.

2. A bed or mattress supporting frame comprising side rails having their ends upturned, spring standards rising from said upturned ends, and end rails supported by said standards.

3. A bed or mattress supporting frame comprising side rails having their ends upturned, arched spring standards supported by the ends of the side rails, and end rails supported by the free ends of said standards.

4. A bed or mattress supporting frame comprising side rails having upturned ends,

arched spring standards supported on the ends of the side rails, and end rails secured to said standards and supported beneath the arches thereof.

5. A bed or mattress supporting frame comprising side rails having upturned ends, arched spring standards supported by the ends of the side rails and having means for supporting the end rails, and braces at the corners of the frame adapted to rest upon the side rails of a bedstead.

6. A bed or mattress supporting frame comprising side rails having upturned ends for elevating and bracing the corners, and spring standards supported by the ends of the side rails and adapted to support the end rails and the fabric.

7. A bed or mattress supporting frame comprising side rails, spring standards thereon, end rails supported from said standards, and corner braces having lateral portions connected with the side rails and provided with sleeves adapted to bear upon the side rails of a bedstead.

Signed by me at Middletown, Conn., this 6th day of November 1912.

FREDERICK A. PALMER.

Witnesses:

GEO. BURNHAM,
D. J. DONAHOE.