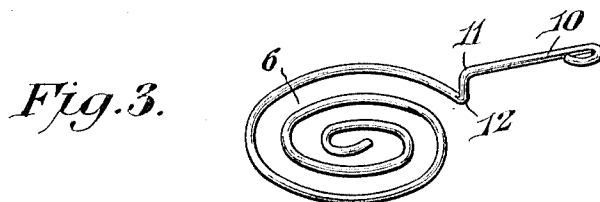
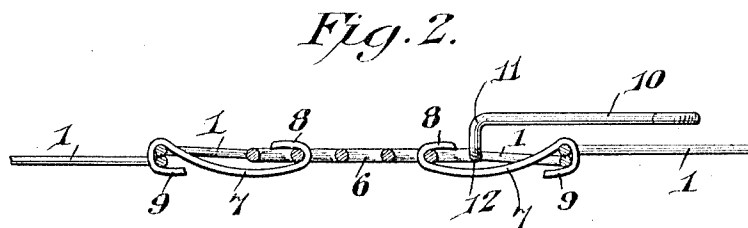
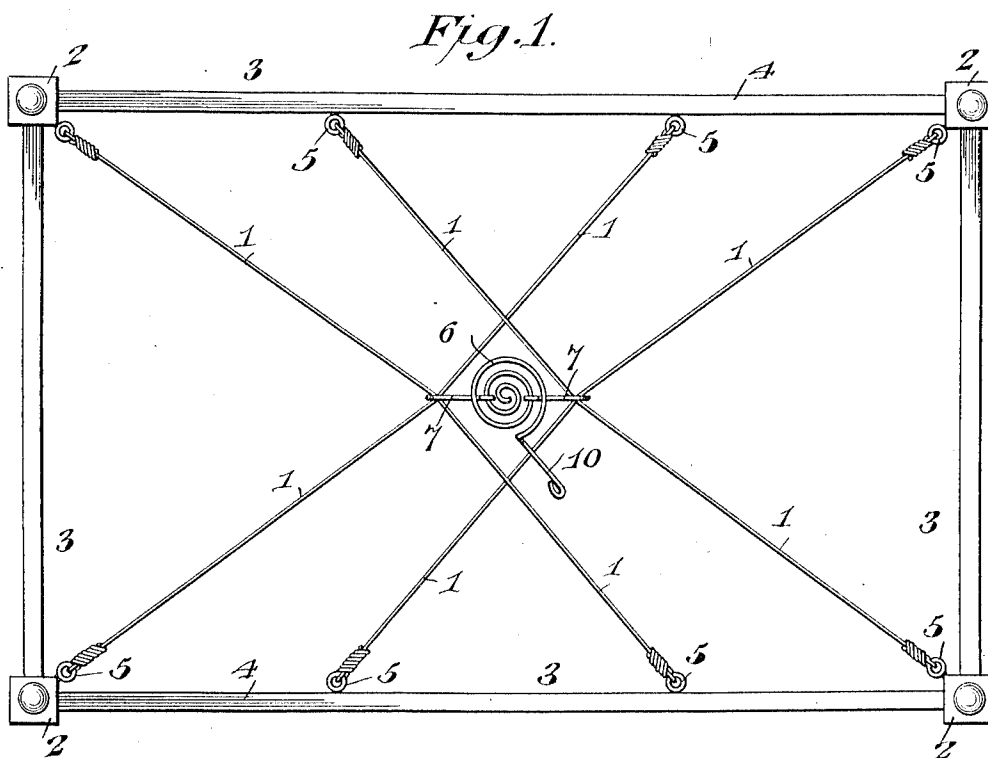


W. I. HARP.
BED BRACE.
APPLICATION FILED MAR. 19, 1913.

1,063,876.

Patented June 3, 1913.



WITNESSES

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WILLIAM ISAAC HARP, OF GALAX, VIRGINIA, ASSIGNOR OF ONE-HALF TO WILLIAM L. HARKEY, OF LEXINGTON, NORTH CAROLINA.

BED-BRACE.

1,063,876.

Specification of Letters Patent.

Patented June 3, 1913.

Application filed March 19, 1913. Serial No. 755,400.

To all whom it may concern:

Be it known that I, WILLIAM I. HARP, a citizen of the United States, residing at Galax, in the county of Grayson and State of Virginia, have invented a new and useful Bed-Brace, of which the following is a specification.

The invention relates to improvements in bed braces.

The object of the present invention is to improve the construction of braces for beds and analogous articles of furniture, and to provide a simple, inexpensive and efficient bed brace of strong and durable construction, adapted to be easily operated and capable of exerting a powerful pull on a plurality of braces, whereby the head and foot boards and the side rails of a bed are firmly held together.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claim hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claim, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a plan view of a bed brace, constructed in accordance with this invention and shown applied to a bed. Fig. 2 is an enlarged longitudinal sectional view of the central portion of the bed brace. Fig. 3 is a detail perspective view of the tightening device.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

In the accompanying drawing in which is illustrated the preferred embodiment of the invention, the bed brace comprises in its construction a plurality of approximately diagonally disposed braces 1, each extending from one of the corner posts 2 of a bed 3 to the opposite side rail 4 thereof and connected to the latter at a point beyond the center of the same. The braces 1, which are designed to be constructed of wire, or other suitable material, are preferably secured to the corner posts and side rails by screw eyes 5 or other suitable fastening means, the terminals of the wire being passed through

the eyes and wrapped around the braces adjacent to the eyes, but the ends of the braces may be secured to the bed in any other desired manner. The braces, which are four in number, and arranged in pairs and the pairs of braces cross each other centrally of the bed, two of the points of crossing being in longitudinal alinement and the other points of crossing being in transverse alinement. The members of each pair of braces are straight and are disposed in parallelism before acted on by a tightening or stretching device 6, which is connected with the braces at the longitudinally alined points of crossing by links 7, constructed of wire or other suitable material and provided at their terminals with inner and outer hooks 8 and 9. The outer hooks engage the crossed braces and the inner hooks are engaged by the tensioning or tightening device, which consists of a horizontally coiled piece of rod metal or other suitable material. The links extend longitudinally of the bed, and the inner hooks are linked into the coils of the tightening or stretching device at diametrically opposite points, and when the said device is rotated in a direction to screw or draw the links inwardly, the braces are also drawn inwardly and placed under the desired tension. The coils of the tightening device are relatively large, and the said device retains the braces under the desired tension without requiring any locking means for holding the said device in its adjustment. The tightening or stretching device is provided at the outer end of the coiled portion with an extension 10, forming a handle and provided at its inner end with angular bends 11 and 12, which offset the handle from the plane of the braces. The coiled portion of the tightening or stretching device is located in the central space bounded by the crossed inner portions of the braces, and the handle or extension 10, which is horizontally disposed, extends beyond the said space and is adapted to be readily grasped by the operator and does not interfere with the use of the bed springs or any other form of mattress support.

What is claimed is:—

A bed brace comprising a plurality of crossed braces, links connected with the braces at their points of crossing, and a stretching or tightening device consisting of

a horizontally coiled portion connected at diametrically opposite points with the said links, and a handle extending from the outer end of the coiled portion and provided at its
5 inner portion with offsetting bends adapted to arrange the said handle beyond the plane of the said braces.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM ISAAC HARP.

Witnesses:

C. OSCAR TAYLOR,
M. G. COOMES.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."