

No. 877,774.

PATENTED JAN. 28, 1908.

M. HOLTS.
BED TIGHTENER.

APPLICATION FILED MAR. 20, 1907.

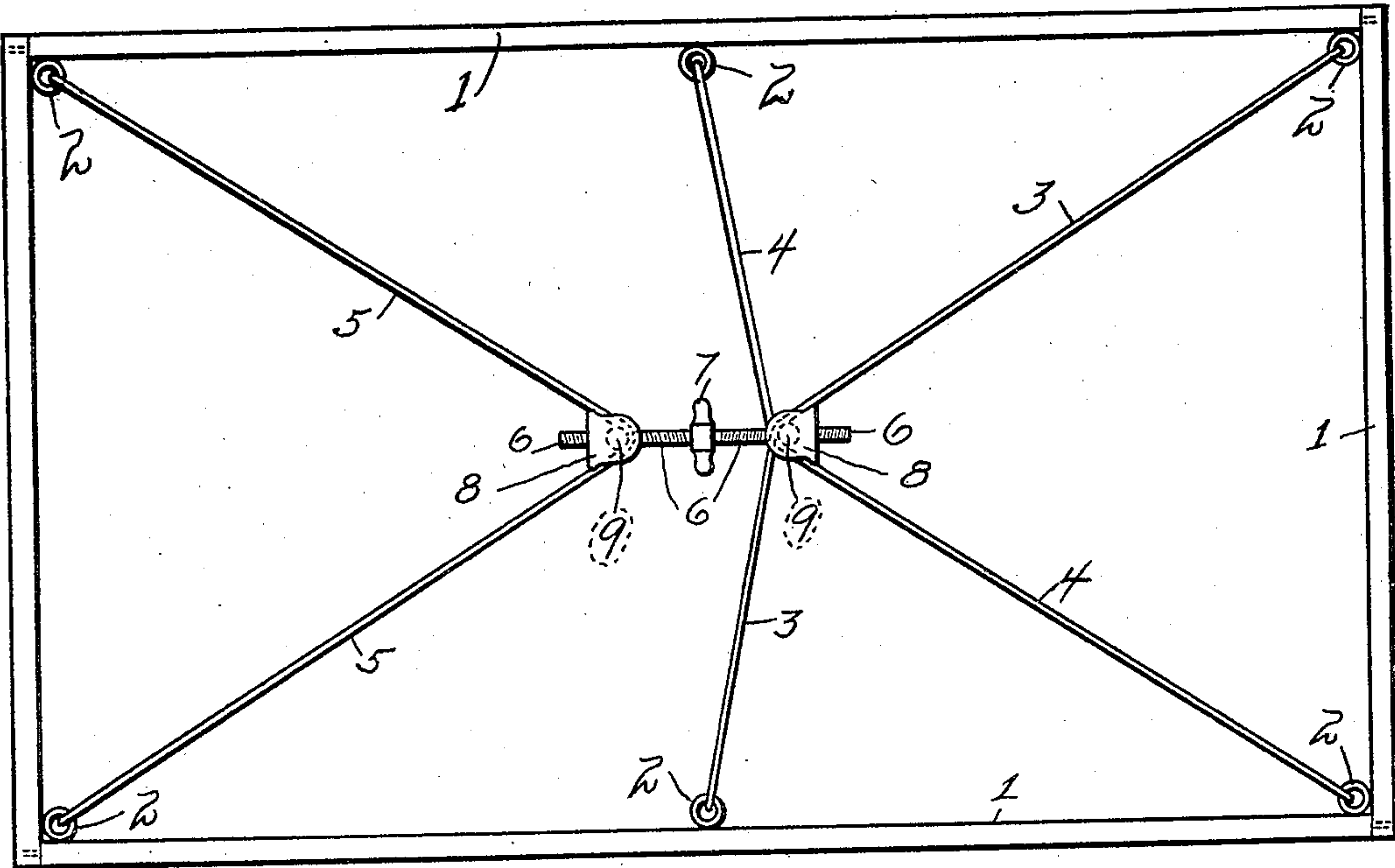


Fig. 1.

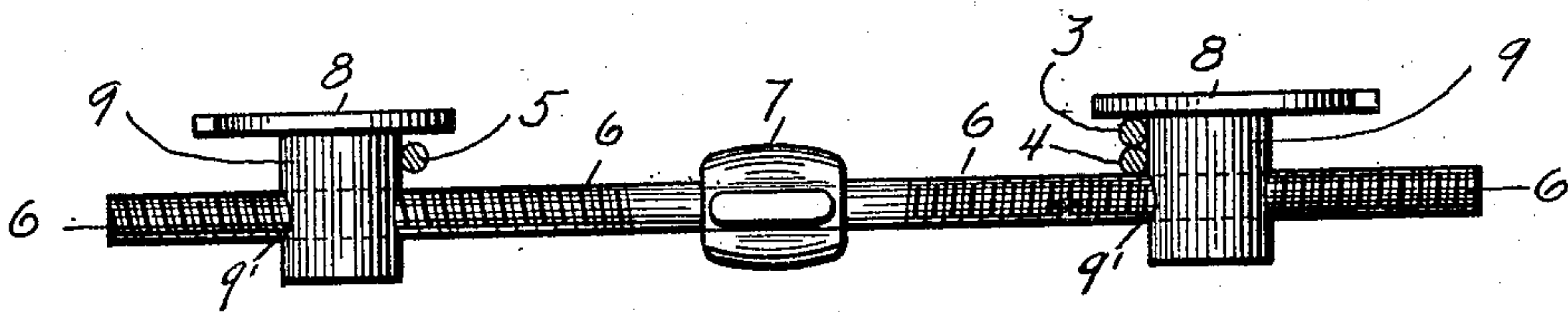


Fig. 2.

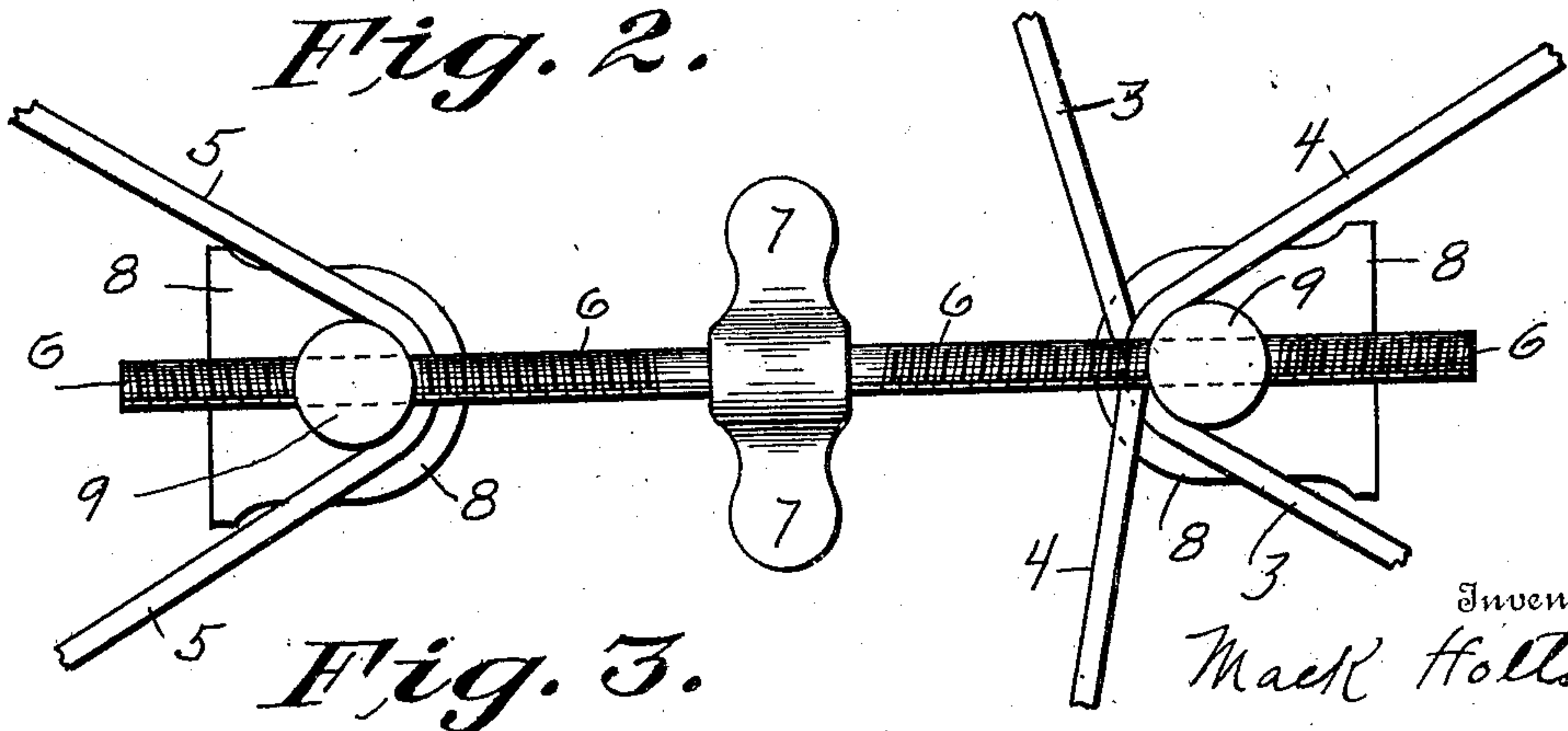


Fig. 3.

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UNITED STATES PATENT OFFICE.

MACK HOLTS, OF PEORIA, ILLINOIS.

BED-TIGHTENER.

No. 877,774.

Specification of Letters Patent.

Patented Jan. 28, 1908.

Application filed March 20, 1907. Serial No. 363,411.

To all whom it may concern:

Be it known that I, MACK HOLTS, a citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Bed-Tighteners; and I do 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 the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in bed tighteners, and has for its object the provision of a tightener which is capable of applying equal tension to the four sides of the bed through three tie wires, as is hereafter more fully described in the specification and set out in the claims.

Preceding a detailed description of the invention, reference is made to the accompanying drawings, of which—

Figure 1, is a plan view of a bed having my improved tightener applied thereto. Fig. 2, is a detached enlarged side elevation of the tightener. Fig. 3, is a bottom plan view of the tightener showing the tie wires engaging the same with parts broken away.

In a detail description of the invention, similar reference characters indicate corresponding parts.

1 designates the side and end rails of a bed, in the corners of which and the middle portions of the side rails are secured eyes 2.

5 designates a continuous tie wire, the ends of which are secured to two of the corner eyes 2 after passing around the apertured tightening lug 9 which coöperates with that particular tie wire 5. The apertured lugs are essentially cylindrical in order that the wires passing there-around will not be weakened or cut thereby as would be the case if said lugs were angular in cross section. Secured to the eyes 2 at the other end of the bed frame are tie wires 3 and 4 which pass around their respective tightening lug 9 and thence extend laterally where their ends are connected to the eyes 2 of the side rails 1. The tightening lugs 9 have screw-threaded openings 9' through them which receive

right and left hand screws 6 which are integral one with the other, the apertures 9' being likewise screw-threaded. The middle portion of the right and left hand screws lying between the right and left hand screws 6 and provided with a turn-piece 7 by means of which said screws are turned to correspondingly move the tightening lugs 9 to apply the desired tension to the tie wires. On one end of the tightening lugs 9 are guards 8 which may or may not be integral therewith; these guards are on the ends of the lugs around which the tie wires are placed and the guards and the screws serve to maintain the wires in position or prevent their accidental displacement from the lugs; the guards also protect the mattress when placed in position. The tie wires, it will be seen, may be easily detached from the fastener whenever such should become necessary, said tie wires being merely passed around the tightening lugs 9 as hereinbefore specified.

It will be observed that in the manipulation of the tightener, the tie wires 3—4 and 5 are given equal tension and draw equally from six points of the bed frame; this is done by means of three tie wires as hereinbefore specified, the ends of the tie wires 3 and 4 extending laterally in opposite directions around the same tightening lug.

I claim:

A bed brace and tightener, comprising a right and left hand tightening screw, two wire-engaging lugs having screw threaded apertures to receive said screw, a guard rigidly connected to the upper end of each of said wire-engaging lugs and lying parallel with the screw and providing a space inclosed on one side by each of the said guards and on the other side by the screw, two brace wires attached at one end each to a corner of the bed-stead and extending around one of the wire-engaging lugs and lying within the space inclosed by the screw and the guard on said lug, said brace wires extending in opposite directions after engaging said wire-engaging lug and having their ends attached to the side rails of the bed-stead, and a single brace wire attached to the other two corners of the bed-stead and passing around the other wire-engaging lug within the space inclosed by the screw and by the guard on said

wire-engaging lug, the screw, and the guard
so united to the wire-engaging lugs coöper-
ating to maintain the brace wires in position
upon said wire-engaging lugs, and means for
5 turning the screw to tighten said brace wires
through the instrumentality of the wire-en-
gaging lugs.

In testimony whereof I affix my signature,
in presence of two witnesses.

MACK HOLTS.

Witnesses:

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