

No. 693,018.

Patented Feb. 11, 1902.

J. HOEY.
WIRE MATTRESS STRETCHER.

(Application filed Nov. 13, 1901.)

(No Model.)

Fig. 1.

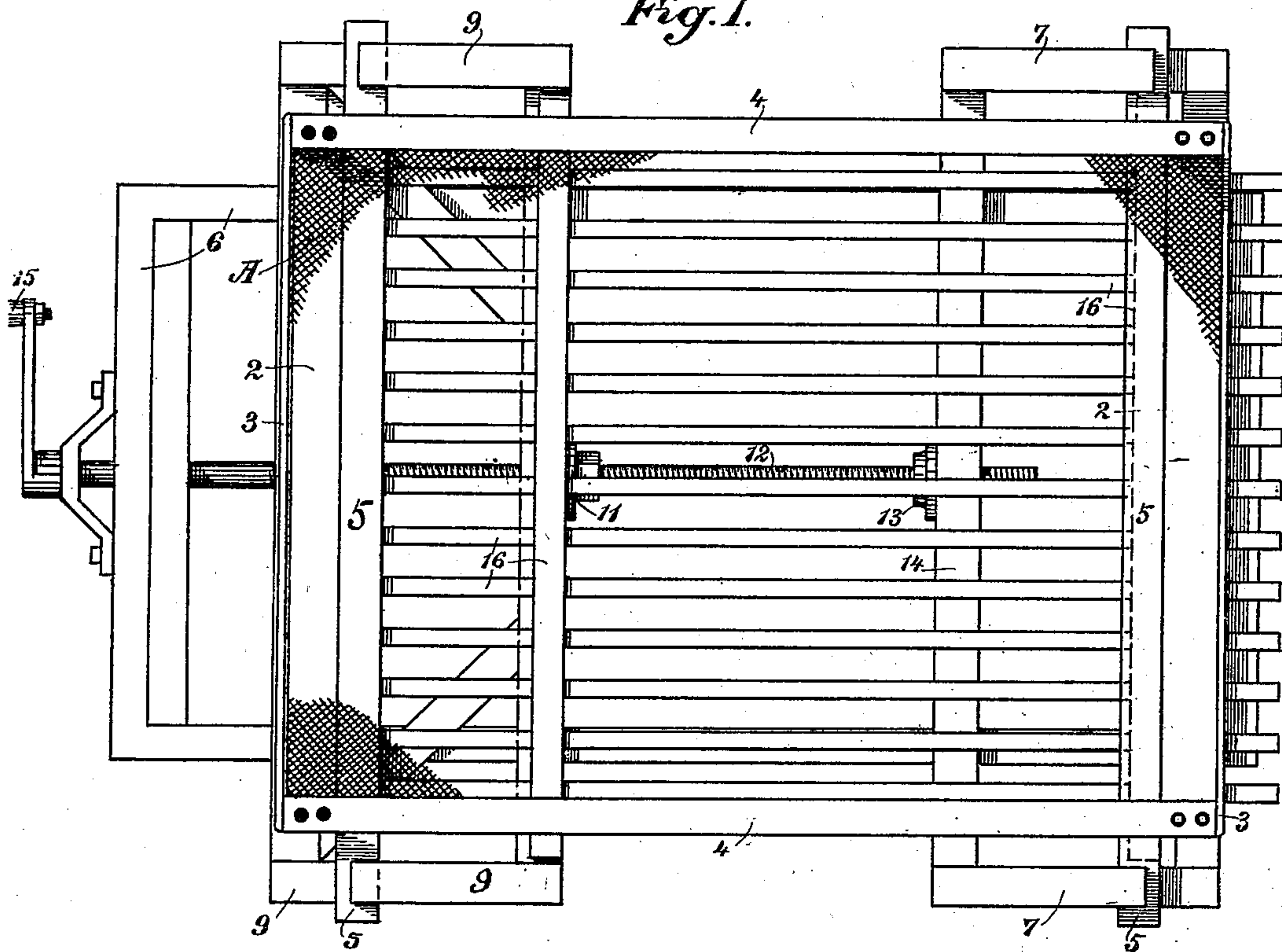
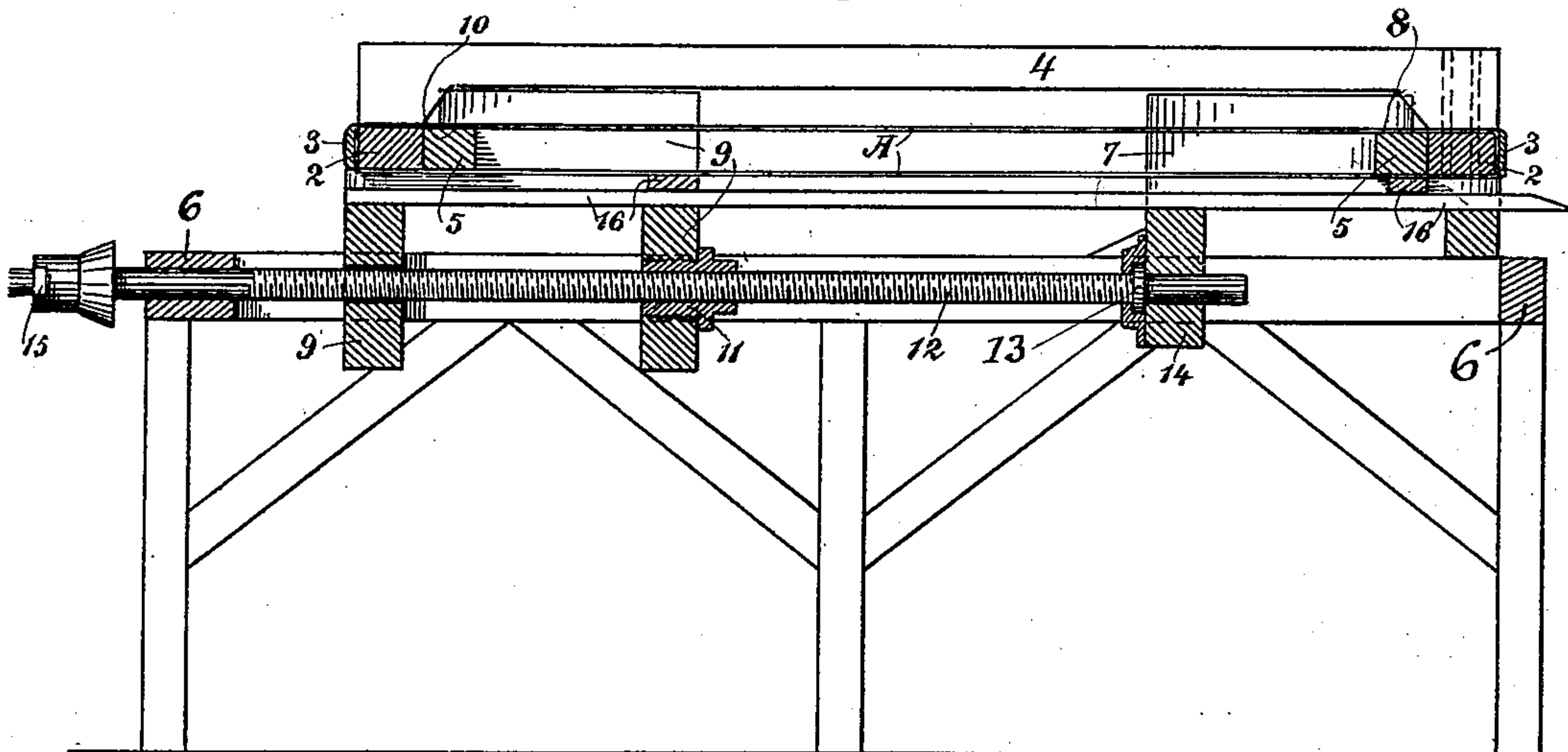


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOHN HOEY, OF SAN FRANCISCO, CALIFORNIA.

WIRE-MATTRESS STRETCHER.

SPECIFICATION forming part of Letters Patent No. 693,018, dated February 11, 1902.

Application filed November 13, 1901. Serial No. 82,115. (No model.)

To all whom it may concern:

Be it known that I, JOHN HOEY, a citizen of the United States, residing in the city and county of San Francisco, State of California, have invented an Improvement in Wire-Mattress Stretchers; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to an apparatus which is designed for the stretching of woven wire or similar fabric upon a frame in conjunction with which it forms the mattress for bed or couch.

It consists of a fixed frame and a second guided slidable frame movable with relation to the fixed frame and means by which it is thus moved. These frames carry bars to receive the end bars of the mattress-frame after the ends of the fabric are secured thereto, and by a suitable mechanism the bars are separated and the fabric is stretched to any degree of tension. The stretching apparatus is an independent structure, to which mattresses of any size may be connected, stretched, assembled, and removed.

My invention also comprises details of construction, which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 is a plan view of the device. Fig. 2 is a longitudinal central section of the same.

What are known as "woven-wire mattresses" are made by constructing a rectangular frame of side and end bars bolted together, and the fabric is stretched between the end bars. It is the object of my invention to provide an apparatus upon which the mattress-frame is carried, to properly stretch this fabric, and hold it while the frame is being secured together.

As shown in the present illustration, the fabric A is first secured to the end bars 2 of the mattress-frame, so that one part of the fabric lies above and the other below these bars. These two ends are usually lapped over the outer edges of the end bars and securely fastened thereto, and suitable cap-pieces, as 3, are fastened over these ends, so as to make a neat finish. The side bars 4 of the frame may be bolted to one end bar 2; but the opposite ends are not bolted to the end bar until after the stretching is completed.

The bolts may, however, be introduced with the ends projecting, so that when the mattress is sufficiently stretched the bolt-holes in the side and end bars will register, and the bolts can be passed through and the holding-nuts applied.

The stretching device consists of a suitably fixed and supported frame having stout bars 6 upon each side. These bars have slots or channels made at 8, so that the ends of the bars 5 can be laid into these slots or channels. Upon the opposite end of the frame 6 is a slidable frame having blocks 9 similar to those shown at 7, and these blocks have slots or channels, as at 10, adapted to receive the ends of similar bars 5, and these bars engage the inner faces of the bars 2 of the mattress-frame. The bars 5 are long enough to take any width of mattress, and they are passed transversely between the upper and lower parts of the fabric just inside of the end bars 2, and their ends engage with their supports 7 and 9. The distance between the blocks 7 and 9 transversely is sufficient to receive any desired width of mattress. The frame carrying the blocks 9 is guided and slidable upon the main frame 6, and it has upon it one or more nuts 11, through which a screw 12 is arranged to pass. The rear end of the screw may have a collar or shoulder, as at 13, and is turnable in a socket in the fixed transverse bar 14 at the end of the frame where the fixed supports 7 are located. At the opposite end this shaft projects outside of the frame and has upon it a crank, hand-wheel, or other means by which it may be rotated, as at 15. When the parts are in readiness, the mattress and the bars 2 resting against the carrying-bars 5, the screw is turned and the bars 5 are moved away from each other, thus separating the bars 2 until the parts of the mattress fabric are stretched sufficiently tight. The free ends of the side bars 4 meantime rest upon the corresponding end bar 2, but are not fastened thereto until the stretching is complete. Then the securing-bolts are inserted and the nuts applied, after which the movable support 9 can be retracted by reversing the movement of the screw, and the whole completed mattress can be removed from the frame by withdrawing the carrying-bars 5. These bars and the fixed and movable supports with which

they connect form an independent apparatus to which a mattress of any width may be connected for stretching without other support. If desired, slats 16 may extend beneath to support the fabric when first placed for stretching.

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

1. An apparatus for stretching wire-mattress fabric upon its frame, consisting of fixed supports with a removable transverse bar adapted to edgewise engage the end bar to which the ends of the fabric are secured, a guided slidable movable support and corresponding removable cross-bar to edgewise engage the opposite end bar of the mattress, and means by which said support is moved away from the fixed support and the two parts of the fabric stretched simultaneously.

2. An apparatus for stretching wire-mattress fabric upon its frame, consisting of a main frame, side supports fixed thereto, a transverse bar removably connected with the supports and formed to engage and hold one of the end bars of the mattress-frame to which the overlapping ends of the fabric are first secured, a guided slidable frame having side supports and cross-bar adapted to hold the

opposite end bar of the mattress-frame so that the fabric lies in two sheets, one above and one below the end bars, a nut fixed to the movable frame, a screw passing therethrough having the opposite end turnable in a fixed socket, and means for turning the screw so as to separate the end bars and stretch the fabric.

3. The combination in an apparatus for stretching wire mattresses including upper and lower sheets of fabric, of a main frame with fixed and movable supports upon the sides, between which the mattress is located, transverse bars secured to the supports and passing between the upper and lower sheets of fabric, and adapted to be brought in contact with the inner edges of the end bars of the mattress and having their ends detachably engaged with the supports, and means by which the movable supports and bar are retracted from the fixed ones.

In witness whereof I have hereunto set my hand.

JOHN HOEY.

Witnesses:

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