

No. 672,863.

Patented Apr. 23, 1901.

A. M. SOREY.
BED SPRING.

(Application filed June 7, 1900.)

(No Model.)

Fig. 1.

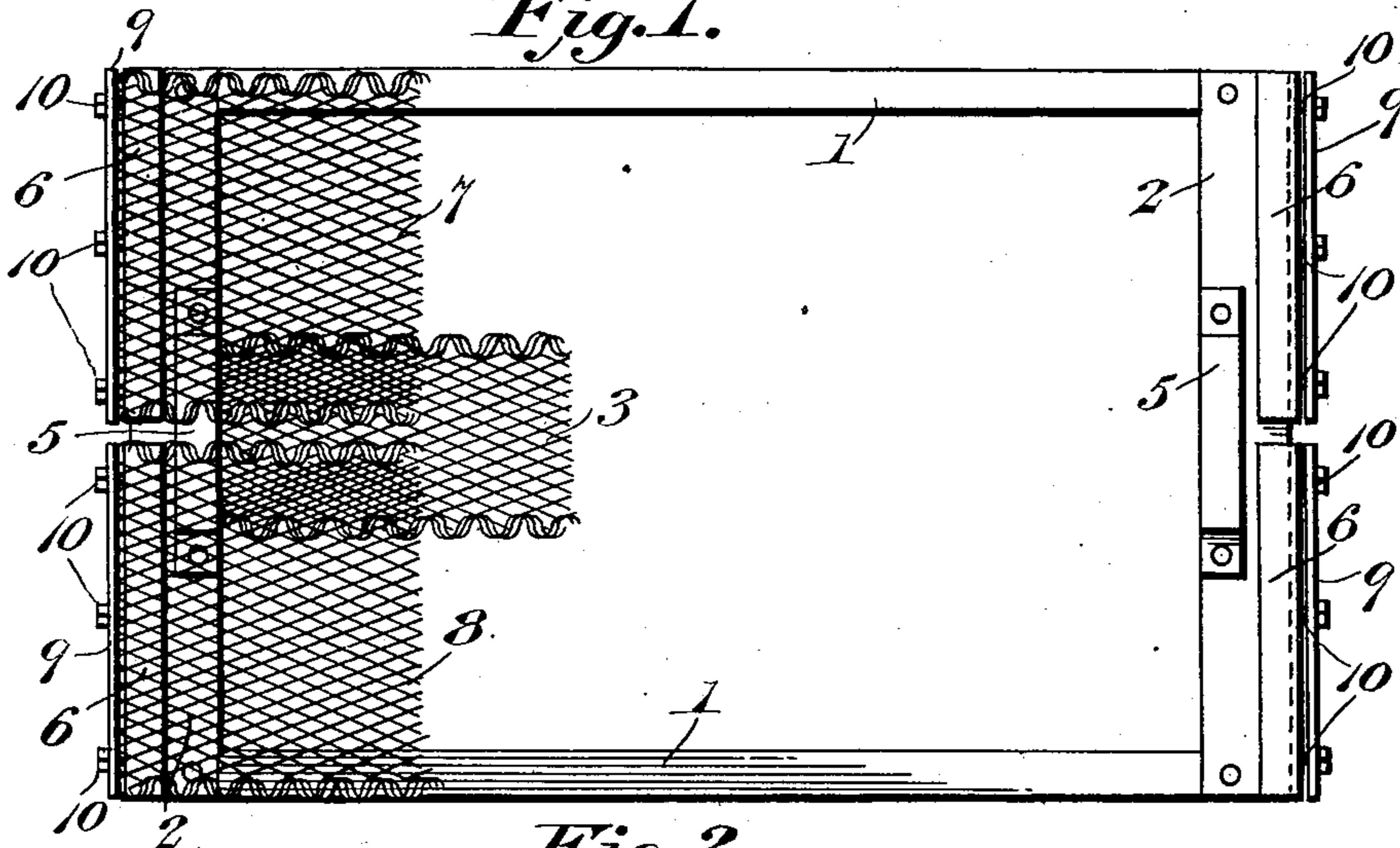


Fig. 2.

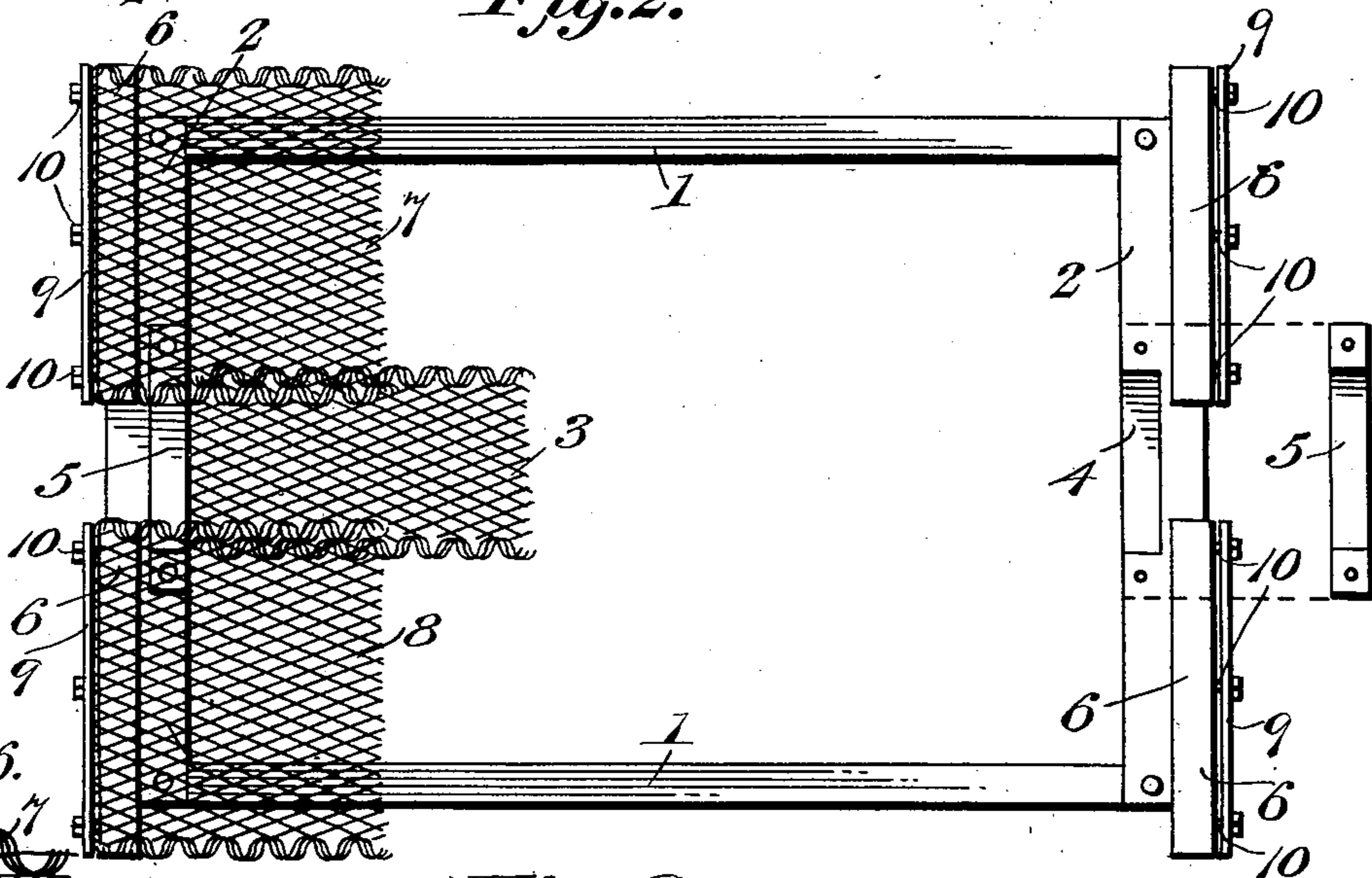


Fig. 6.

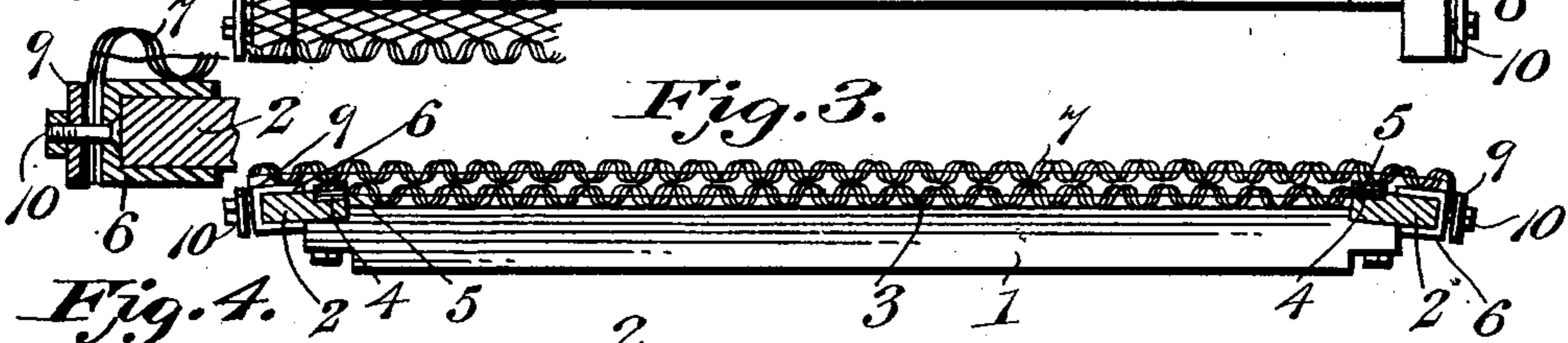


Fig. 3.

Fig. 4.

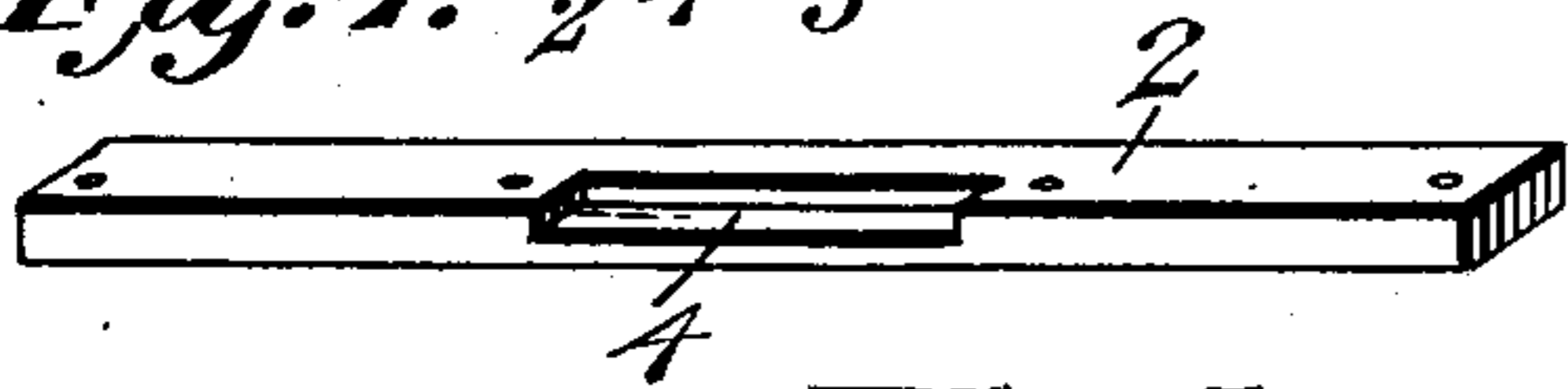
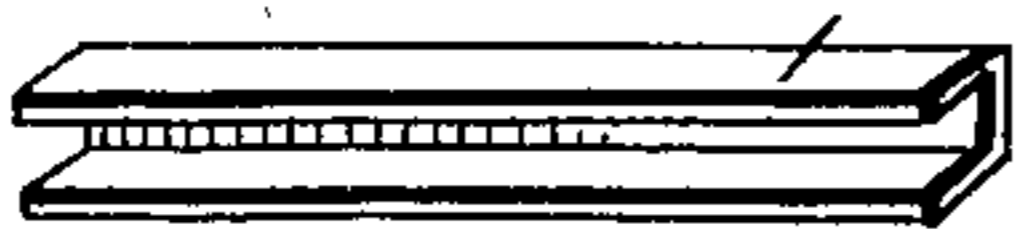


Fig. 5.



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Witnesses

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UNITED STATES PATENT OFFICE.

ARTHUR M. SOREY, OF CLARION, IOWA.

BED-SPRING.

SPECIFICATION forming part of Letters Patent No. 672,863, dated April 23, 1901.

Application filed June 7, 1900. Serial No. 19,490. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR M. SOREY, a citizen of the United States, residing at Clarion, in the county of Wright and State of Iowa, have invented a new and useful Bed-Spring, of which the following is a specification.

This invention relates to a novel spring bed-bottom, one object in view being to produce a sectional bottom which may be adjusted to fit bedsteads of different sizes.

A further object of the invention is to so construct and arrange the adjustable bottom sections as to maintain a continuous resilient or springy supporting-surface under all conditions by the provision of a permanent spring-section carried by the supporting-frame intermediate of the adjustable sections and designed at all times to extend across the interval between the sections.

Still further objects subordinate to those enumerated will hereinafter appear in the succeeding description which has special reference to the preferred form of the invention illustrated in the accompanying drawings and embraced within the scope of the appended claims.

In said drawings, Figure 1 is a plan view of my spring bed-bottom, showing portions of the spring-sections or wire fabric broken away. Fig. 2 is a view similar to Fig. 1, but showing the adjustable sections extended or separated and one of the securing-plates of the stationary section removed. Fig. 3 is a central longitudinal section. Fig. 4 is a view of one of the end rails detached. Fig. 5 is a detail view of one of the slides detached; and Fig. 6 is a sectional view, on a somewhat enlarged scale, showing the manner of the attachment of the wire fabric to the slides.

Referring to the numerals of reference employed to designate corresponding parts throughout the views, 1 and 2 indicate the side and end rails of a rectangular or oblong frame having any suitable specific construction and constituting the supporting member of my bed-bottom. At the longitudinal center of this frame is retained a permanent bottom section 3, constructed of woven-wire fabric or other suitable material of comparatively narrow width and having its opposite ends received within recesses 4 in the upper faces of the end rails 2 and securely retained

therein by the retaining-plates 5, covering the recesses and screwed or otherwise secured to the end rails, as shown.

The recesses 4 extend from the inner edges of the rails 2, and their transverse dimensions, as well as the transverse dimensions of the retaining or covering plates 5, are such as to leave sufficient room for the mounting and free movement of a number of adjustable slides 6, which constitute the end pieces of adjustable bottom sections 7 and 8, composed, like the section 3, of wire fabric or other more or less resilient or yielding material suitable for the purpose. The adjustable bottom sections 7 and 8 are of a width approximating one-half the width of the frame and in their contracted positions constitute a practically continuous supporting-surface entirely covering the frame. In all positions of these sections, however, their inner edges overlap to a greater or less extent the opposed edges of the intermediate permanent section 3, so that as the adjustable sections are separated or extended to increase the width of the bed-bottom the interval between them will be closed by the section 3 to form a continuous supporting-surface at all times.

In carrying out the invention in its broadest aspect various forms of adjustable retaining means for the opposite ends of the wire fabric may be employed; but in the present embodiment of the device the fabric is secured to the slides 6, which are substantially U-shaped and fit over the outer edges of the end rails 2, which latter in order to more certainly withstand the strain imposed upon them by the tightly-drawn fabric are given a slight transverse inclination, as shown in Fig. 3 of the drawings. The means for securing the fabric to the slides preferably comprises a clamping-plate 9, extending over the outside face of each slide and retained by bolts 10, projecting from the slide and designed to draw the clamping-plates 9 against the ends of the fabric, which are passed between the plate and slide, as shown in Figs. 3 and 6 of the drawings. The slides are preferably entirely free to move longitudinally upon the end rails 2, being retained in their adjusted positions by the strain imposed upon them by the wire fabric, which, as is well under-

stood in the art, is necessarily drawn taut to render it sufficiently resilient for the comfortable support of a body in use.

The method of procedure followed in assembling a bottom constructed as described will vary in accordance with the individual ideas of the manufacturer and with the availability of stretching appliances which are usually employed in the construction of spring bed-bottoms. For instance, the slides may be first attached to the fabric and then fitted on the end rails, which latter may be subsequently drawn apart by suitable means and bolted to the side rails, or, if preferred, the frame 1 may be first assembled and the wire sections may thereafter be stretched until the slides are in position to be received upon the end rails, or a still further variation of the method of assembling would be to place the slides upon the end rails and subsequently stretch the fabric and secure its ends to the slides. The manner of assembling the parts is not essential, however, inasmuch as the various modes of procedure above stated are available.

From the foregoing it will be evident that a bed-bottom constructed in accordance with my invention may be adjusted to fit various sizes of bedsteads by the relative adjustment of the sections 7 and 8, the continuity of the supporting-surface being maintained under all conditions by the intermediate stationary section 3, which closes the interval between the adjustable sections; but while the embodiment of my invention illustrated and described is believed at this time to be preferable I wish to reserve the right to effect such changes, modifications, and variations as may fall properly within the scope of the protection prayed.

What I claim is—

1. A bed-bottom comprising a pair of sections in the same plane and an additional section located in a different plane and opposite the contiguous edges of the first-named sections.

2. A bed-bottom comprising a series of relatively adjustable sections, and an intermediate section designed to close the interval between the sections to maintain the continuity of the supporting-surface when such interval is produced by the relative adjustment of the first-named sections.

3. A bed-bottom comprising a pair of adjustable sections, and an intermediate stationary section closing the interval between the adjustable sections to maintain the continuity of the supporting-surface when such interval is produced by the relative adjustment of the first-named section.

4. In a bed-bottom, the combination with a frame, of a plurality of adjustable sections

located in the same horizontal plane, each section comprising slides carried at the opposite ends of the frame, and a flexible strip having its opposite ends retained by the slides.

5. A bed-bottom comprising a frame, a stationary section located at the longitudinal center of the frame and a plurality of adjustable sections carried by the frame and overlapping the opposite edges of the stationary section.

6. A bed-bottom comprising a frame composed of end and side rails, a stationary section extending between the inner edges of the end rails at the center of the frame, and a pair of adjustable sections extending between the outer edges of the end rails, whereby the adjustable sections are movable without interference from the intervening section which serves to close the interval between the adjustable sections and to maintain the continuity of the supporting-surface.

7. A bed-bottom comprising a frame composed of side and end rails, a stationary wire-fabric section extending between the inner edges of the end rails, slides movable upon the outer edges of the end rails, and wire-fabric strips extended between the slides located at opposite ends of the frame.

8. In a bed-bottom, the combination with a frame comprising side rails and recessed end rails, of a bottom section having its opposite ends retained in the recesses of the end rails, slides movable upon the end rails, and flexible strips extending between the slides and constituting adjustable side sections cooperating with the stationary section to produce an adjustable bed-bottom having the continuity of its supporting-surface maintained in the several adjusted positions of its sections.

9. In a bed-bottom, the combination with a frame comprising side and end rails, of slides substantially U-shaped in cross-sectional contour and fitted over the outer edges of the end rails, flexible strips extended between the slides and arranged for adjustment through the movement thereof, and a stationary section extending between the inner edges of the end rails.

10. A bed-bottom comprising a plurality of relatively adjustable sections disposed in the same plane and an additional section located in a different plane, all of said sections cooperating to form a continuous extensible supporting-surface.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ARTHUR M. SOREY.

Witnesses:

GEO. P. BOND,
M. G. E. BENNETT.