

No. 839,442.

PATENTED DEC. 25, 1906.

J. E. WARFEL.
FOLDING BED.

APPLICATION FILED JAN. 4, 1906. RENEWED NOV. 22, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

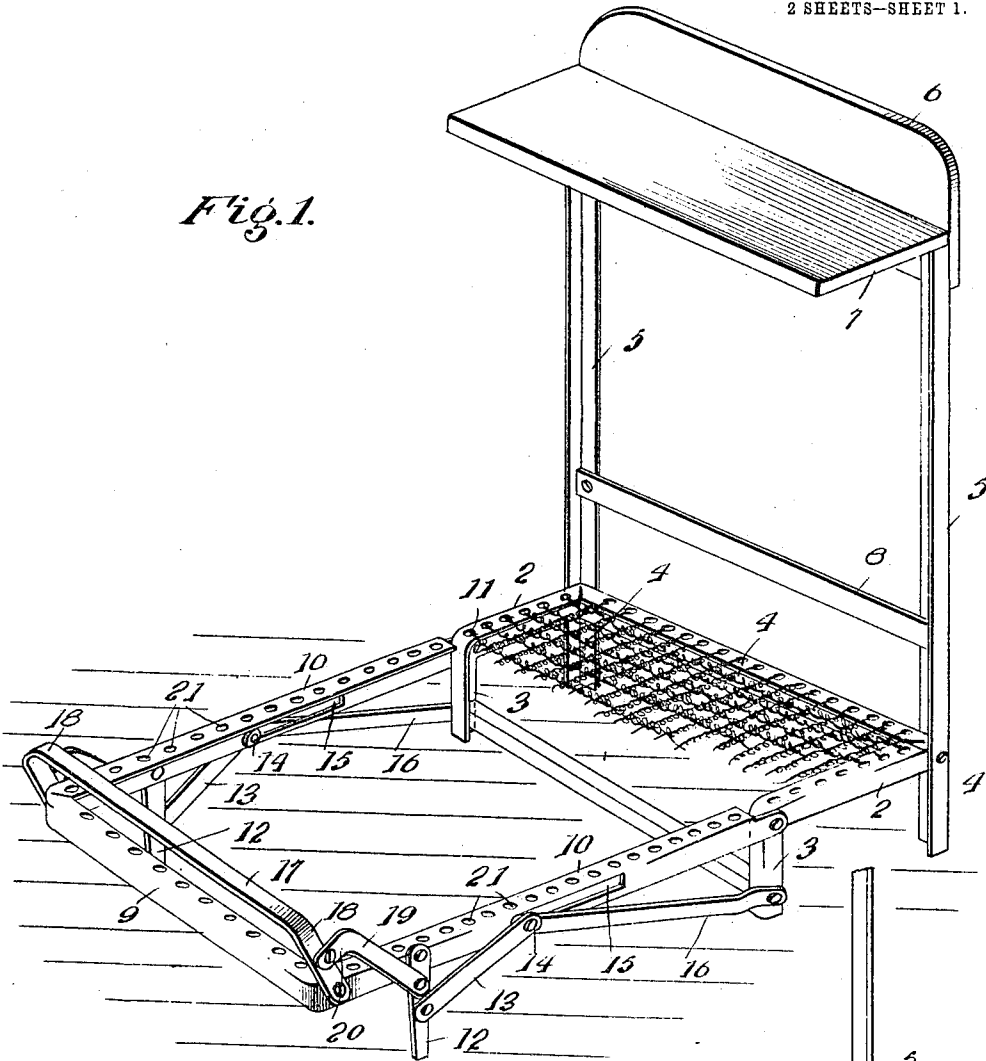
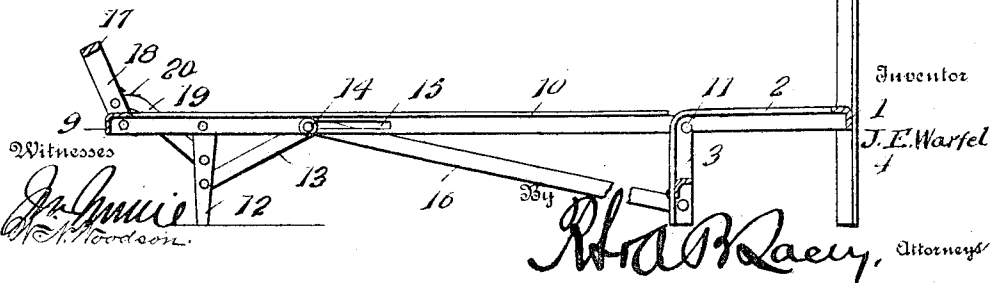


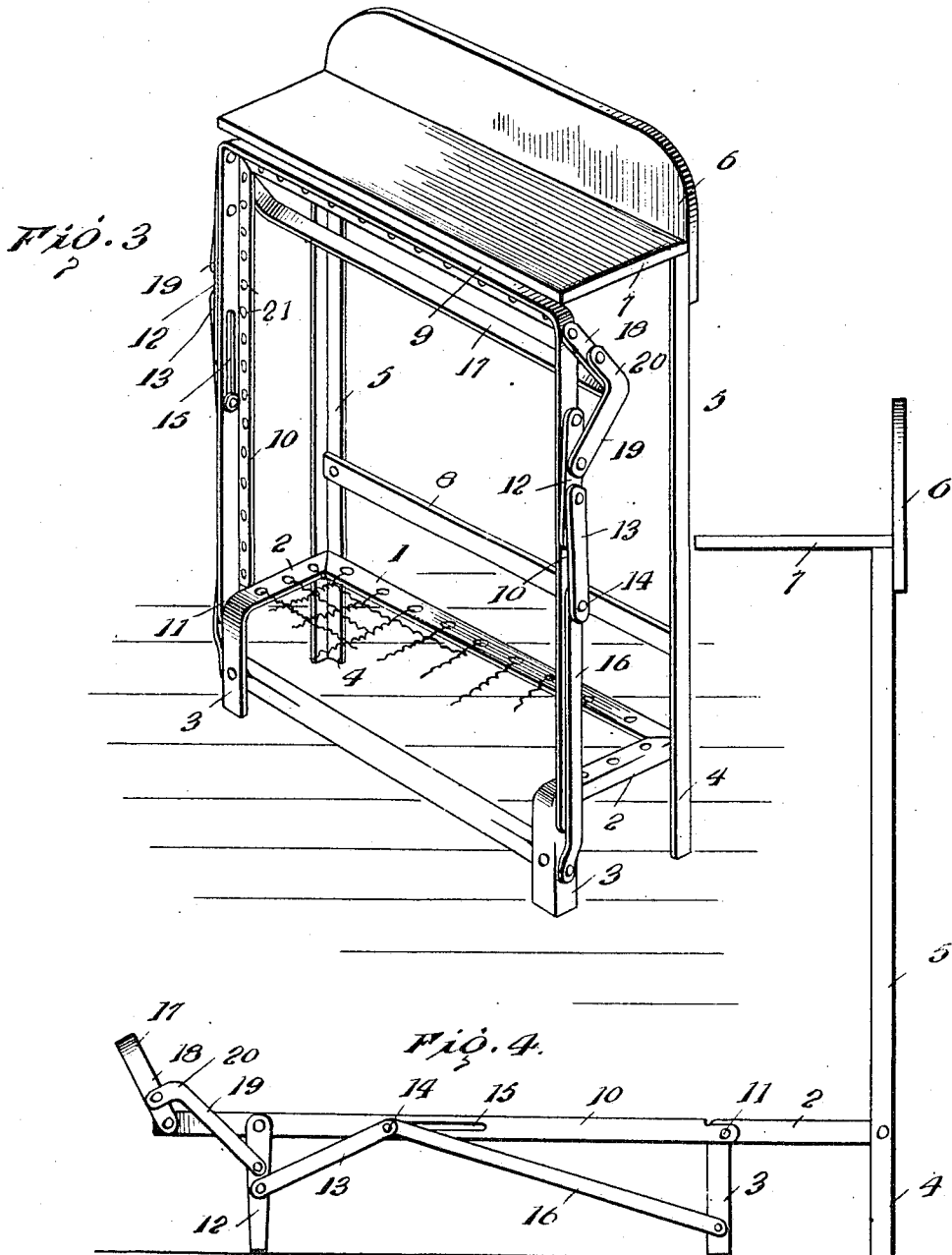
Fig. 2.



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2 SHEETS—SHEET 2.



Inventor

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Witnesses

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By

H. A. B. [Signature]

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UNITED STATES PATENT OFFICE.

JESSE E. WARFEL, OF HORTON, KANSAS.

FOLDING BED.

No. 839,442.

Specification of Letters Patent.

Patented Dec. 25, 1906.

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To all whom it may concern:

Be it known that I, JESSE E. WARFEL, a citizen of the United States, residing at Horton, in the county of Brown and State of Kansas, have invented certain new and useful Improvements in Folding Beds, of which the following is a specification.

This invention relates to improvements in beds, and more particularly to that type which are adapted to be folded, so as to occupy a comparatively small amount of floor-space.

The device consists, essentially, of a bed formed in sections, one of which is rigid, while the opposite section is pivotally connected to the rigid section.

The object of the invention is to provide a folding bed which will occupy a minimum amount of space when folded and which will possess the required rigidity when extended.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and accompanying drawings, in which—

Figure 1 is a perspective view showing the bed in an open position. Fig. 2 is a longitudinal vertical section when open. Fig. 3 is a perspective view of the bed in a folded position. Fig. 4 is a side elevation when folded.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Broadly speaking, the bed is formed in two sections, the section adjacent the head being supported upon legs independently of the opposite section and rigidly constructed to serve as a base upon which the opposite section is pivotally mounted.

The numeral 1 designates the head-rail, and 2 the side rails, of the fixed or rigid section, the ends of the side rails 2 being supported upon intermediate legs 3. The legs 4, upon which the head-rail 1 is supported, extend upwardly, as seen at 5, and have their extremities connected by a transverse member 6, from which a shelf 7 projects. This shelf 7 is of such a size as to project over the pivoted section of the bed when it is folded in a vertical position. Transverse members 8 are employed to connect the legs 3 and the upper extensions of the legs 4 in order to

reinforce the fixed section and secure a rigid construction.

It may be noted that the members 1, 2, and 3 are formed out of a single piece of angle-iron, which is bent in a suitable manner, triangular sections being cut from one of the flanges at the bending-points. The pivoted section of the bed comprises a foot-rail 9 and the side rails 10, which are pivotally secured at their inner ends to the fixed or rigid section of the bed at 11. These side rails 10 are supported when in a lowered position by means of legs 12, which are pivotally attached thereto. These legs 12 are connected, by means of diagonal braces 13, to a pin 14, which is slidably mounted in a longitudinal slot in the side rails 10. The side rails 10 and foot-rail 9 are formed of angle-iron, having one of the flanges in a horizontal position, while the opposite flange is vertical, and the slots 15 are preferably located in the vertical flange. The sliding members 14 are also connected to the intermediate legs 3 by a second diagonal brace 16. These diagonal braces and the slot 15 are so arranged with relation to each other that when the pivoted section of the bed is folded in a vertical position they will lie adjacent to the side rails 10 and will cause the pivoted legs 12 to assume a similar position. The slot 15 is also of such a length that the opposite ends thereof engage with the sliding member 14 and form stops which limit the movement of the pivoted section.

A transverse clamping-rail 17 extends across the foot of the bed and is provided at its extremities with transversely-extending arms 18, which are pivotally connected to the side rails 10. These members 18 are connected to the pivoted legs 12 by means of link members 19. The outer ends of the link members 19 are bent so as to form laterally-extending arms 20, the extremities of which are connected to the members 18. The formation of the links 19 with these laterally-extending arms 20 prevents the links from coming into contact with the points where the clamping-rail 17 is pivoted to the bed.

It will thus be apparent that when the bed is opened the clamping-rail 17 will form a foot-piece and that when the bed is folded the link members 19 will cause the clamping-rail to swing inwardly and clamp the bed-clothes in position. A series of openings 21

are formed around the frame of the bed by means of which the springs are secured in position.

From the foregoing description it will be understood that when the pivoted section of the bed is folded in a vertical position the diagonal braces and the legs 12 will extend along the side rails 10 and the clamping-rails 17 will swing inwardly and prevent the bedclothes from slipping out of position.

Having thus described the invention, what is claimed as new is—

1. In a folding bed, the combination of a rigid section, a second section pivotally connected to the rigid section, legs pivotally attached to the second section, members slidably mounted upon the second section, and brace members connecting said slidably-mounted members with the rigid section and the before-mentioned pivoted legs, respectively.

2. In a folding bed, the combination of a rigid section, a second section pivotally connected thereto, legs pivotally attached to the second section, a clamping-rail, means for causing the before-mentioned legs to swing inwardly when the bed is folded, and link members connecting the legs and the clamping-rail so that the latter will be caused to clamp the bedclothes in position when the legs swing inward.

3. In a folding bed, the combination of a rigid section, a second section pivotally connected thereto, legs pivotally attached to the second section, a clamping-rail, means for causing the before-mentioned legs to swing inwardly when the bed is folded, and link members having one end connected to the legs while the opposite end is formed with a laterally-extending arm, said arm being pivotally connected to the clamping-rail so that the latter will be caused to clamp the bedclothes in position when the legs swing inward.

4. In a folding bed, the combination of a rigid section, a second section pivotally connected to the rigid section, legs pivotally attached to the second section, members slidably mounted upon the second section, brace members connecting said slidably-mounted members with the rigid section and with the before-mentioned pivoted legs, respectively, a clamping-rail, and link members connecting the legs and clamping-rail so that the latter will be caused to clamp the bedclothes in position when the bed is folded.

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

JESSE E. WARFEL. [L. S.]

Witnesses:

C. A. AYERS,
W. W. BARRETT.