A. J. LATTIN.

SPRING BED-BOTTOM.

No. 185,113. Patented Dec. 5, 1876.

Fig. 1.

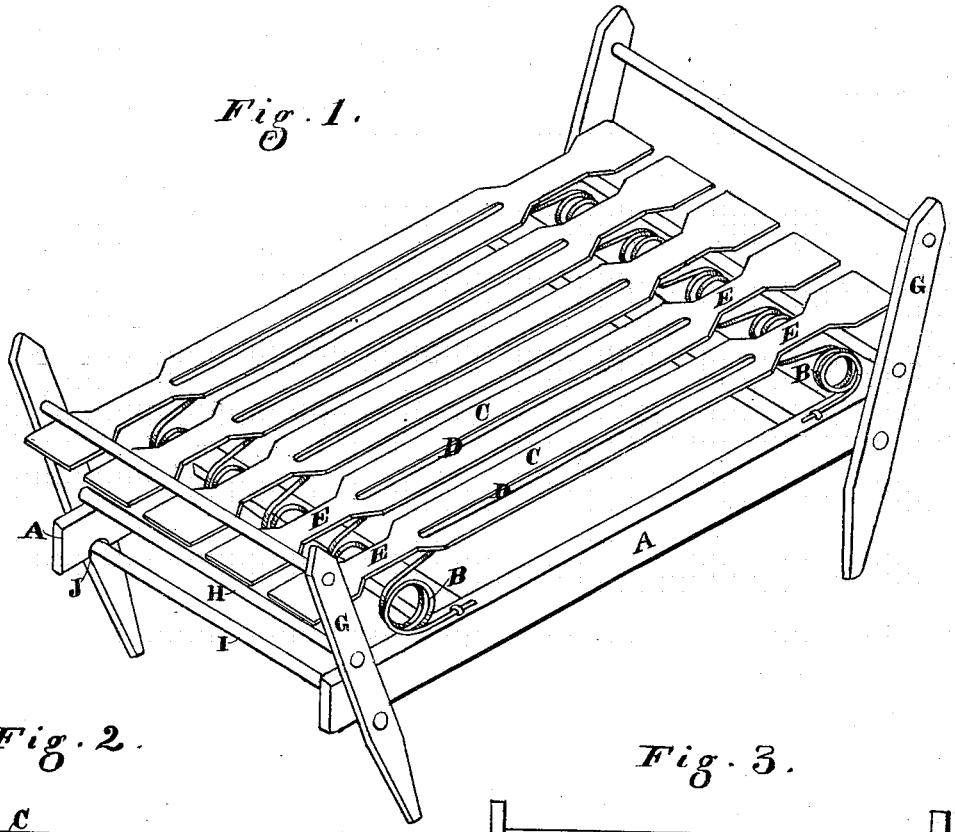


Fig. 2.

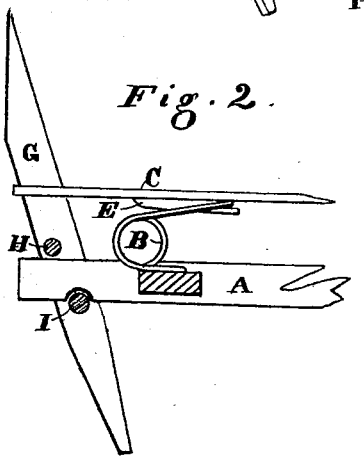
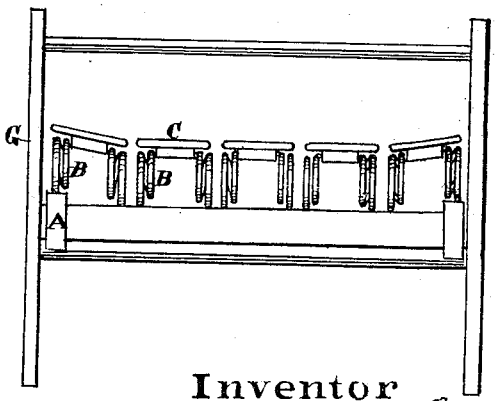


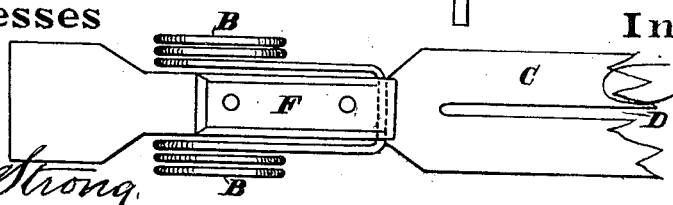
Fig. 3.

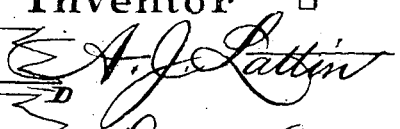


Witnesses

Geo. H. Strong.

Olwyn T. Stacy.





Inventor

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Attys

UNITED STATES PATENT OFFICE.

AMBROSE J. LATTIN, OF ALVARADO, CALIFORNIA.

IMPROVEMENT IN SPRING BED-BOTTOMS.

Specification forming part of Letters Patent No. **185,113**, dated December 5, 1876; application filed October 7, 1876.

To all whom it may concern:

Be it known that I, AMBROSE J. LATTIN, of Alvarado, county of Alameda, and State of California, have invented an Improved Spring-Bed; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings.

My invention relates to certain improvements in the construction of beds; and it consists, first, in a novel construction of the longitudinal slats which form the bed-bottom, and also in a means for attaching them to the coiled springs placed at either end, together with certain details of construction. My invention also relates to the construction and attachment of a head and foot piece, which completes the bed.

Referring to the accompanying drawings for a more complete explanation of my invention, Figure 1 is a perspective view. Fig. 2 is a part of the longitudinal section. Fig. 3 is an end view. Fig. 4 is a bottom view of slat C.

A is a frame having stout cross-bars at either end, to which the coiled springs B have one of their ends secured, while the other ends of the springs are secured to longitudinal slats C, which form the bed-bottom. This combination of the coiled springs with longitudinal slats, broadly, is an old and well-known device; but I have made certain important improvements, the first of which is in the construction of the slats C. These are made so broad as to nearly touch each other, and each slat has a longitudinal slot, D, made in it, as shown. These slots give the effect of greater elasticity by subdividing the slat, while the ends are preserved intact for the attachment of the springs.

In order to allow the slats C to be depressed between the coils B when pressure is applied, the slats are cut away at E, just at the point where the coils lie; but the main portion forms a bed-bottom having all elasticity of narrow slats, while the space is so completely filled that a very thin mattress can be used without allowing the slats to be felt.

In order to secure the slats firmly and in a manner that will allow them to be easily removed, I secure a piece, F, to the lower side of the slat at each end, having a groove or slot at the inner edge, as shown. The spring is strained forward, and its bight is hooked into the slot, and the pulling strain thus brought to bear from each end retains the springs in place, and also serves to form a tension for the slat itself. A great difficulty has always been met in spring-beds, from a tendency of the edges of the mattress to become permanently depressed, and also because the slats could not in ordinary construction be carrried out far enough at the sides. The first point I overcome by making the sides of the frame A higher than the cross-bars, and the outer ends of the outside springs are secured to this rail. This raises the outer edge of the slat and gives it an inclination inward. The latter defect is corrected by the making of the slats so wide, as this causes them to extend to the outer edge.

In order to make my bed convenient and portable, I employ a head and foot piece, G, which also serves as legs. These pieces have each two bars, H I, extending across from side to side, and these are separated just enough to slip over the ends of the frame A. A slot, J, is made in the bottom of each of the side rails of this frame, and this allows the lower bar I of the end pieces to fit into this slot, when the upper parts of the end pieces are inclined outward, as shown in Fig. 1, thus holding the parts securely together, or allowing them to be instantly dismounted.

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

1. The longitudinal slats C, made broad enough to nearly meet at the edges, and having the slot D cut through their centers, substantially as and for the purpose described.

2. The broad centrally-slotted slats C, having the grooved strips F at each end, and being cut away, as shown at E, in combination with the coiled springs B, substantially as and for the purpose herein described.

3. The frame A, made higher at its outer edges than at the center, and having the outer coiled springs B mounted upon it so as to incline inward, in combination with the

broad outer slat C, so made as to project to the outer edge and incline inward, substantially as described.

4. The head and foot pieces G, having the cross-bars H and I, in combination with the frame A, slotted at J, substantially as and for the purpose herein described.

In witness whereof I have hereunto set my hand and seal.

AMBROSE JACOB LATTIN. [L. S.]

Witnesses:
FRANK A. BROOKS,
OLWYN T. STACY.